



FILE NO.

SERVICE MANUAL

Remote Control Digital Color Television

DP32640 (U.S.A.)
(CANADA)
ORIGINAL VERSION



Chassis No. P32640-04

NOTE: Match the Chassis No. on the unit's back cover with the Chassis No. in the Service Manual.

If the Original Version Service Manual Chassis No. does not match the unit's, additional Service Literature is required. You **must** refer to "Notices" to the Original Service Manual prior to servicing the unit.

Servicing should be performed by only trained and qualified service personnel.

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Specifications

POWER RATING	120VAC 122 W (AVG.)
ANTENNA INPUT IMPEDANCE	75Ω UHF/VHF/CATV DIGITAL
RECEIVING CHANNEL	2 - 13 (VHF), 14 - 69 (UHF), 01, 14-94, 95-135 (CATV) 1-135 (DIGITAL)
REMOTE READY	36 KEY REMOTE CONTROL
SOUND OUTPUT	10.0 W/CH
INTERMEDIATE FREQUENCY	
PICTURE IF CARRIER	45.75MHz
SOUND IF CARRIER	41.25MHz
COLOR SUB CARRIER	42.17MHz
CABINET DIMENSIONS	
WIDTH	800mm
HEIGHT	559mm
DEPTH INCLUDING BASE	241mm

SAFETY INSTRUCTIONS

SAFETY PRECAUTIONS

WARNING: The chassis of this receiver has a floating ground with the potential of one half the AC line voltage in respect to earth ground. Service should not be attempted by anyone not familiar with the precautions necessary when working on this type of equipment.

The following precautions must be observed:

1. An isolation transformer must be connected in the power line between the receiver and the AC line before any service is performed on the receiver.
2. Comply with all caution and safety-related notes provided inside the cabinet, on the chassis, and on the back.
3. When replacing a chassis in the cabinet, always be certain that all the protective devices are installed properly, such as control knobs, adjustment covers, shields and barriers.
4. Before replacing the back cover of the set, thoroughly inspect the inside of the cabinet to see that no stray parts or tools have been left inside.

Before returning any television to the customer, the service technician must perform the following safety checks to be sure that the unit is completely safe to operate without danger of electrical shock.

ANTENNA COLD CHECK


Remove AC plug from the 120 VAC outlet and place a jumper across the two blades. Connect one lead of an ohmmeter to the jumpered AC plug, and touch the other lead to each exposed antenna terminal (UHF and VHF antenna terminals). The resistance must measure between 1M ohm and 5.2M ohm. Any resistance value below or above this range indicates an abnormality which requires corrective action.

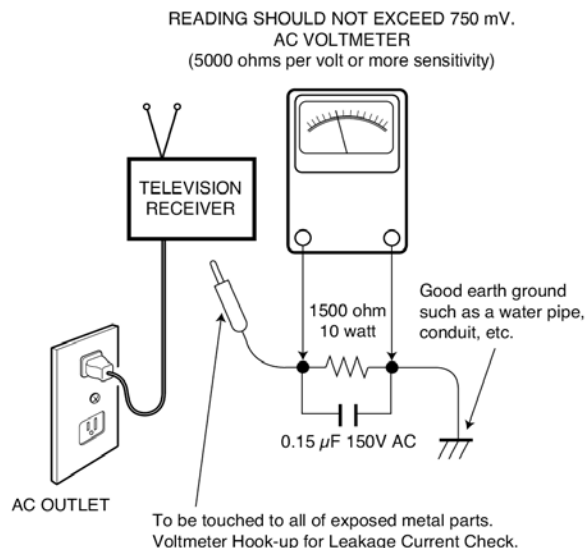
LEAKAGE CURRENT CHECK

Plug the AC line cord directly into a 120 VAC outlet. (Do not use an isolation transformer for this check.) Use an AC voltmeter, that has 5000 ohms per volt or more sensitivity. Connect a 1500 ohm 10 watt resistor, paralleled by a 0.15 μ F 150 VAC capacitor, between a known good earth ground (water pipe, conduit, etc.) and all exposed metal parts of the cabinet (antennas, handle bracket, metal cabinet, screw heads, metal overlays, control shafts, etc.). Measure the AC voltage across the 1500 ohm resistor. The AC voltage should not exceed 750 mV. A reading exceeding 750 mV indicates that a dangerous potential exists. The fault must be located and corrected. Repeat the above test with the receiver power plug reversed.

NEVER RETURN A RECEIVER TO THE CUSTOMER WITHOUT TAKING THE NECESSARY CORRECTIVE ACTION.

PRODUCT SAFETY NOTICE

When replacing components in a receiver, always keep in mind the necessary product safety precautions. Pay special attention to the replacement of components marked with a  in the parts list and in the schematic diagrams. To ensure safe product operation, it is necessary to replace those components with the exact same PARTS.



SERVICING ELECTROSTATICALLY SENSITIVE DEVICES

Semiconductors (solid-state devices) that can be damaged by static electricity are referred to as Electrostatically Sensitive (ES) devices. Examples of typical ES devices are: Integrated Circuits (IC), Field-Effect Transistors (FET), and "chip" components. The following techniques should be observed strictly, to reduce the occurrence of semiconductor damage due to electrostatic discharge.

1. Immediately prior to handling any semiconductor component or an assembly containing a semiconductor device or devices, discharge the electrostatic buildup on your body by touching a known earth ground. You may also obtain and wear a commercially available discharging wrist strap device.

CAUTION: Be sure to remove the wrist strap before applying power to any unit being serviced.

2. After removing an ES equipped assembly, place it on a conductive surface, such as, aluminum foil, to prevent buildup or exposure to static electricity.
3. Use only grounded-tip soldering irons to solder or unsolder ES devices.
4. Use only anti-static solder removal devices. Some suction-type devices can generate static electricity adequate to damage ES devices.
5. A replacement ES device will come packaged in protective material (conductive foam, aluminum foil, or some comparable conductive material). Do Not remove an ES device from its protective packaging unless you are prepared to install it immediately.
6. Precisely prior to removing an ES device from its protective packaging, touch the protective packaging to the chassis or assembly in which the device will be installed.

CAUTION: Be sure that no power is applied to the chassis or circuit assembly.

7. Incidental body movements, such as, lifting a foot from a carpeted floor or the rubbing of fabric together can generate static electricity sufficient to damage ES devices. Therefore, minimize all body movements while handling exposed (unpacked) ES devices.

SERVICE ADJUSTMENTS

GENERAL

This set has an On-screen Service Menu system included in the CPU that allows remote operation for most of the service adjustments.

ON-SCREEN SERVICE MENU SYSTEM

1. Enter the Service Menu:

- Turn off the receiver and disconnect the AC power supply.
- While pressing the Volume (—) button on the television, reconnect the AC power supply. The Service Menu will now appear. The remote can now be used to make adjustments. See Figure 1 below.

ITEM NO.	TITLE	HEX DATA			
Index	ParameterName	Value	Def.	MIN	MAX
1	FACTORY_VOL	0x21	48	0	255

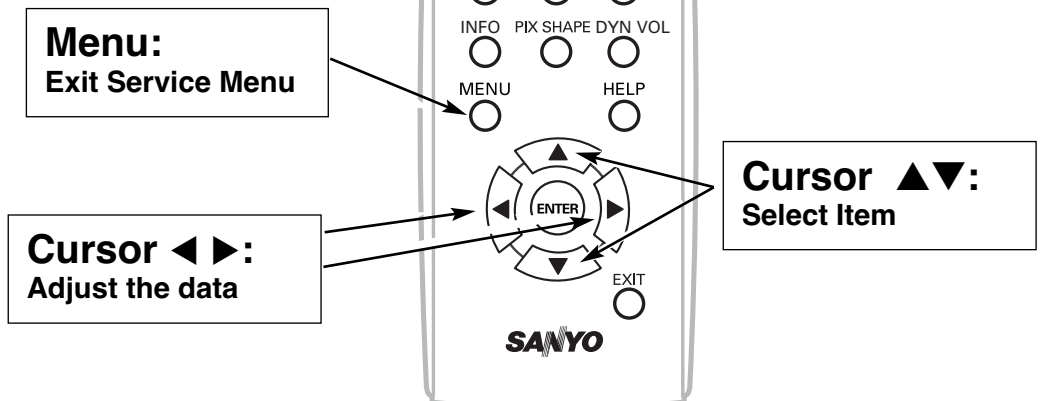
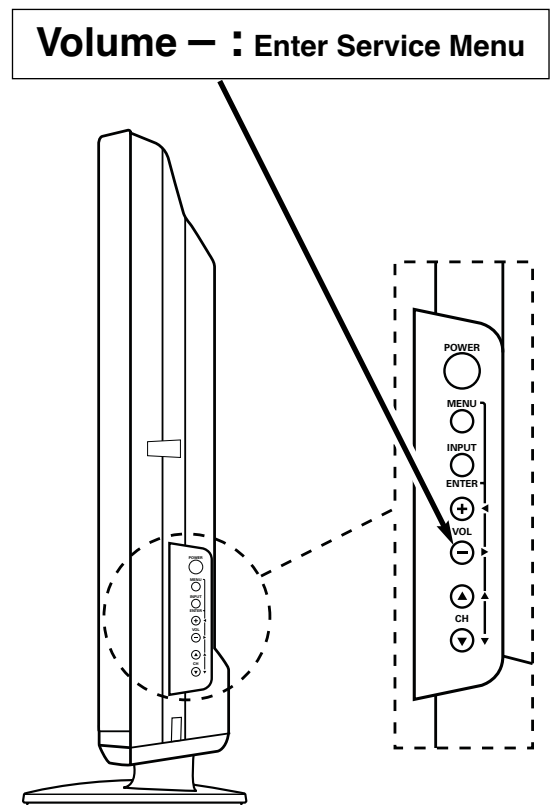
Figure 1. Service Menu Display

2. Service Adjustments:

- Press the Cursor ▲ and ▼ key to select the desired service menu item you want to adjust. See page 4 for the On-screen Service Menu.
- Use the Cursor ◀ or ▶ key to adjust the data. The ◀ or ▶ key will increase or decrease the data sequentially.

3. Exit from the Service Menu:

- Press the **MENU** key to turn off the Service Menu display.



ON-SCREEN SERVICE MENU

Table 1. ON-SCREEN SERVICE MENU

When IC5750 (Flash Memory) is replaced, check the bus data to confirm they are the same as below. See page 3 for On-Screen Service Menu access and adjustments.

Index	ParameterName	Value	Def	Min	Max
2	OP1	0x0	0	0	255
3	OP2	0x3	1	1	32

NOTES: Option 2 Data (Display Panel)

Option 1 and Option 2 data is initial and can be set according to adjustment information.

PROGRAM CODES

The microprocessor used in this model is a multi-purpose type and is used in several different models. To ensure proper operation and the correct features for your particular model, the program codes must be correct.

Note 1. Option Data 1 (No. 2 OP1) should be hexadecimal 00.

See 2 above. If this program code is wrong the TV will not operate properly.

Note 2. Option Data 2 (No. 3 OP2) should be hexadecimal 0A.

See 3 above. If this program code is wrong the TV will not operate properly.

POWER FAILURE CIRCUIT

Internal sub_CPU on main IC 5500 is programmed so the set will go to standby mode when there is circuit failure as described below. (Refer to "Block Diagram Power Lines".)

This unit is equipped with a Power Failure Detector function included in the sub_CPU which checks for an abnormal condition in the chassis power supplies.

If, while the power is on, a failure is caused by any of the following that results in a low voltage supply, the sub_CPU will turn the unit off in 1.5 seconds to prevent further damage:

- Failure within the power supply circuits.
- A short circuit in the load side from the supply.

Power Failure: Detected voltage failure for circuit.
(Connected to IC5500 pin D9, through RB5501.)

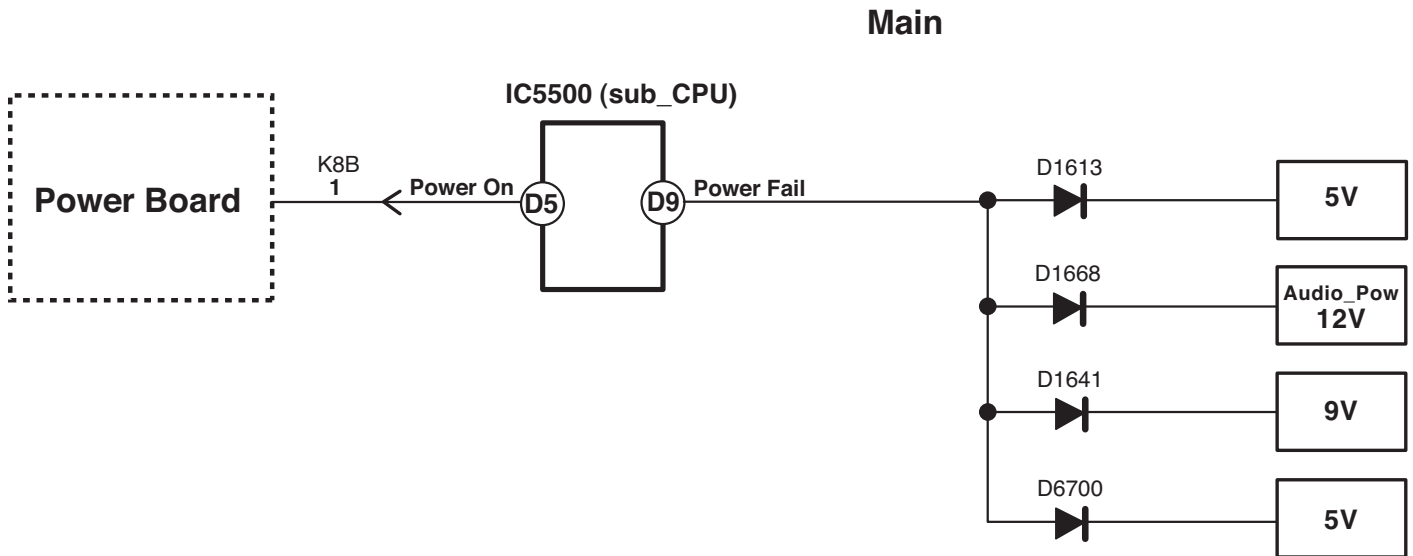
(Normal: High; Failure: Low)

If, while the power is off, the power is switched on and any of these failures remains uncorrected, the sub_CPU will shut off the power within three seconds.

Check the following if the unit is turned off by the power failure detector.

1. Disconnect the AC power cord (120V AC line) for a short time.
2. Connect a DC Voltmeter to the circuits shown below.
3. Press the Power key and check for the proper voltage supplies.
4. If any of these voltages is low, the power failure detector should turn the unit off within three seconds.
5. Check all circuits shown below.

Note: If power failure is detected 3 times in 15 minutes, the set will enter the standby mode and cannot be switched On. To reset the operating programs of the sub_CPU it is necessary to disconnect the AC cord for a short time.



MECHANICAL DISASSEMBLY

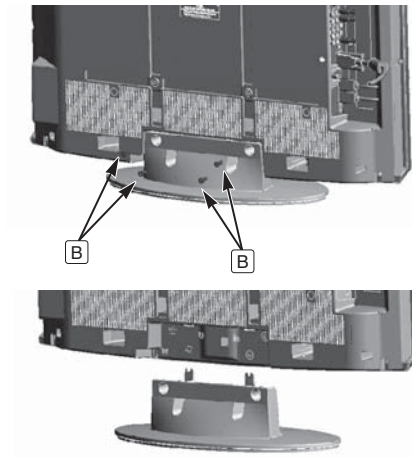
CAUTION:

This LCD TV uses several different kinds of screws. Using the correct screw is necessary to prevent damage. Lead wires must be redressed to their previous locations after servicing. The Earth sheet and gasket are provided to prevent interference to other radio and television receivers. The Earth sheet and gasket should be returned to its previous position after servicing.

STAND REMOVAL

Note: Position TV face down on a padded or cushioned surface to protect the screen and finish.

Remove 4 screws (B: 6x16) to take the stand off.

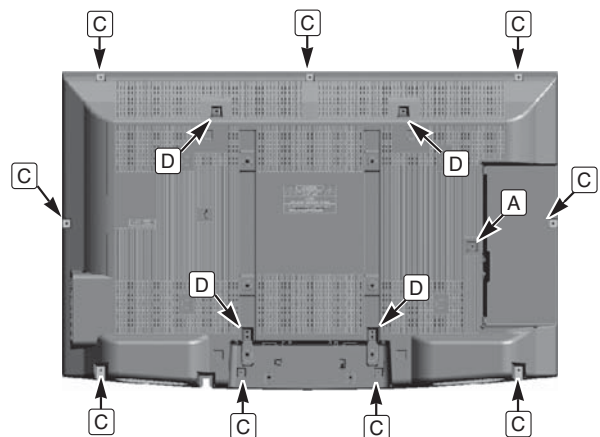


BACK CABINET REMOVAL

1. Remove 14 screws (C:3x14, 9pcs; D:4x8, 4pcs; A:3x6, 1pc.) shown in figure.
2. Lift the back cabinet and remove the lead wire connector.
3. Take the back cabinet off.

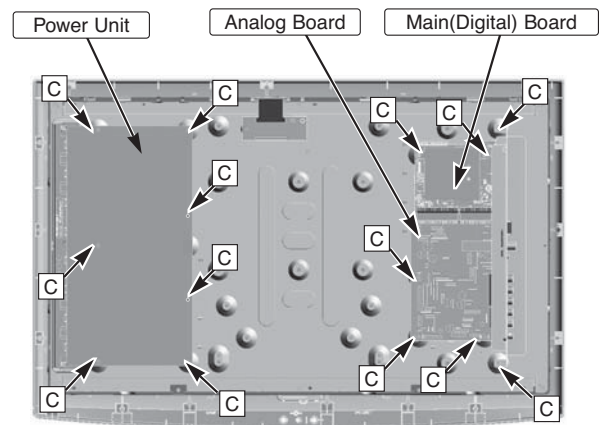
[ATTENTION]

Please do not tighttet the screw (D) too strongly when installing the back cabinet again.



POWER UNIT REMOVAL

Remove 7 screws (C:3x6) to take the power unit off.





ELECTROSTATICALLY SENSITIVE DEVICES

Many solid-state devices (especially Integrated Circuits) are Electrostatically Sensitive, and, therefore, require special handling techniques as described under "Servicing Electrostatically Sensitive Devices," on page two in this service literature.

LCD PANEL REMOVAL

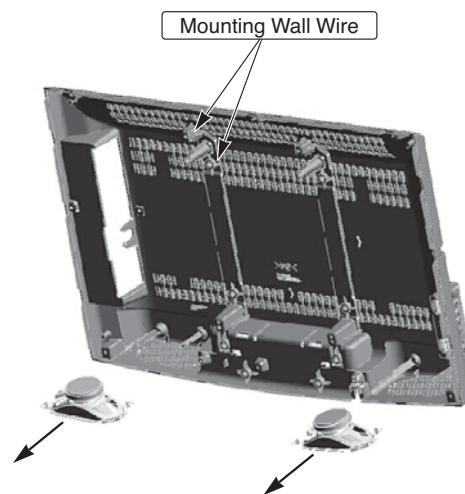
Lift up the LCD panel from front cabinet.

SPEAKER REMOVAL

Take off each speaker from back cabinet

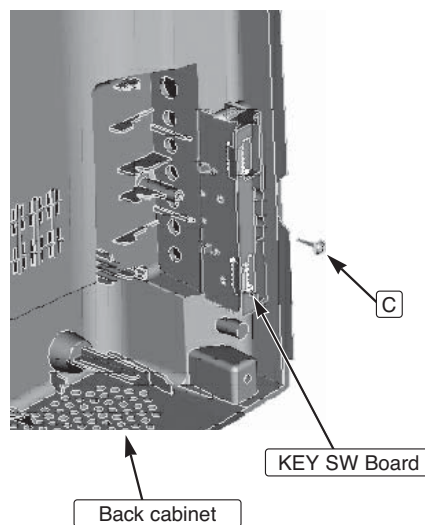
[ATTENTION]

Confirm Mounting Wall Wire is installed when you install the back cabinet.



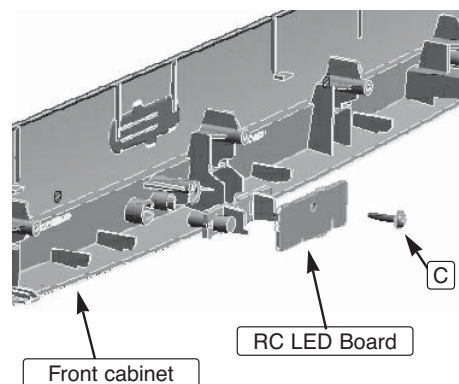
KEY SW BOARD REMOVAL

Remove 1 screw (C:3x14) to take the KEY SW board off.



RC LED BOARD REMOVAL

Remove 1 screw (C: 3x14) to take the RC LED board off.



CHASSIS ELECTRICAL PARTS LIST

CAUTION: To Protect against electrical shock and for continued product safety, refer to SAFETY PRECAUTIONS and PRODUCT SAFETY NOTICE on Page 2.

PRODUCT SAFETY NOTICE

PRODUCT SAFETY SHOULD BE CONSIDERED WHEN A REPLACEMENT IS MADE IN ANY AREA OF A RECEIVER. COMPONENTS INDICATED BY A Δ IN THIS PARTS LIST AND THE SCHEMATIC DIAGRAM DESIGNATE COMPONENTS IN WHICH SAFETY CAN BE OF SPECIAL SIGNIFICANCE. IT IS PARTICULARLY RECOMMENDED THAT ONLY PARTS DESIGNATED ON THE FOLLOWING PARTS LIST BE USED FOR COMPONENT REPLACEMENT DESIGNATED BY A Δ . NO DEVIATIONS FROM RESISTANCE, WATTAGE, AND VOLTAGE RATINGS MAY BE MADE FOR REPLACEMENT ITEMS DESIGNATED BY A Δ .

Note: Schematic part location numbers may not always match with the part descriptions.
The part descriptions are correct and should be used.

Schematic Location	Part No.	Description
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CAPACITORS

NOTES:

Read description of the Capacitor as follows:

(Example)

CERAMIC 100P K 50V

Rated Voltage

Tolerance Symbols:
Less than 10pF

A : Not specified B : $\pm 0.1\text{pF}$ C : $\pm 0.25\text{pF}$
D : $\pm 0.5\text{pF}$ E : $\pm 0.1\text{pF}$ F : $\pm 1\text{pF}$
G : $\pm 2\text{pF}$ H : $\pm 0.1 - 0\text{pF}$ L : $\pm 0 - 0.1\text{pF}$
R : $\pm 0.25 - 0\text{pF}$ S : $\pm 0 - 0.25\text{pF}$

More than 10pF

A : Not specified B : $\pm 0.1\%$ C : $\pm 0.25\%$
D : $\pm 0.5\%$ F : $\pm 1\%$ G : $\pm 2\%$
H : $\pm 3\%$ J : $\pm 5\%$ K : $\pm 10\%$
L : $\pm 15\%$ M : $\pm 20\%$ N : $\pm 30\%$
P : $\pm 100-0\%$ Q : $\pm 30-10\%$ T : $\pm 50-10\%$
U : $\pm 75-10\%$ V : $\pm 20-10\%$ W : $\pm 100-10\%$
X : $\pm 40-20\%$ Y : $\pm 150-10\%$ Z : $\pm 80-20\%$

Rated value: P=pico farad, U=micro farad

Material:

CERAMIC..... Ceramic
MT-PAPER..... Metallized Paper
POLYESTER..... Polyester
MT-POLYEST..... Metallized Polyester
POLYPRO..... Polypropylene
MT-POLYPRO..... Metallized Polypropylene
COMPO FILM..... Composite Film
MT-COMPO..... Metallized Composite
STYRENE..... Styrene
TA-SOLID..... Tantalum Solid
AL-SOLID..... Aluminium Solid
ELECT..... Electrolytic
NP-ELECT..... Non-polarised Electrolytic
OS-SOLID..... Aluminium Solid with Organic
Semi-conductive Electrolytic

Schematic Location	Part No.	Description
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RESISTORS

NOTES:

Read description of the Resistor as follows:

(Example)

CARBON 4.7K J A 1/4W

Rated Wattage

Performance Symbols:

A...General B...Non-flammable
Z...Low noise
Other... Temperature coefficient

Tolerance Symbols:

A...0.05% B...0.1% C...25%
D...0.5% F...1% G...2%
J...5% K...10% M...20%
P...+5 -15%

Rated Value, ohms:

K...1,000 M...1,000,000

Material:

CARBON..... Carbon
MT-FILM..... Metal Film
OXIDE-MT..... Oxide Metal Film
SOLID..... Composition
MT-GLAZE..... Metal Glaze
WIRE WOUND..... Wire Wound
CERAMIC RES..... Ceramic
FUSIBLE RES..... Fusible

Schematic Location	Part No.	Description
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"ASSY,PWB,DIGITAL_Z-N8LJ"

CAPACITORS

C001	F1G1C104A077	CERAMIC	0.1U K	16V
C003	F1G1C104A077	CERAMIC	0.1U K	16V
C004	F1J1E105A171	CERAMIC	1U K	25V
C005	F1G1C104A077	CERAMIC	0.1U K	16V
C006	F1G1C104A077	CERAMIC	0.1U K	16V
C007	F1J0J106A004	CERAMIC	10U K	6.3V
	F1J0J106A020	CERAMIC	10U K	6.3V
C008	F1H1H104A913	CERAMIC	0.1U K	50V
C009	F1H1H104A913	CERAMIC	0.1U K	50V
C010	F1J0J106A004	CERAMIC	10U K	6.3V
	F1J0J106A020	CERAMIC	10U K	6.3V
C011	F1J0J106A004	CERAMIC	10U K	6.3V
	F1J0J106A020	CERAMIC	10U K	6.3V
C012	F1H1H104A913	CERAMIC	0.1U K	50V
C013	F1H1H104A913	CERAMIC	0.1U K	50V
C015	F1H1H104A913	CERAMIC	0.1U K	50V
C017	F1H1H104A913	CERAMIC	0.1U K	50V
C018	F1H1H104A913	CERAMIC	0.1U K	50V
C019	F1H1H104A913	CERAMIC	0.1U K	50V
C020	F1J0J106A004	CERAMIC	10U K	6.3V
	F1J0J106A020	CERAMIC	10U K	6.3V
C021	F1J0J106A004	CERAMIC	10U K	6.3V
	F1J0J106A020	CERAMIC	10U K	6.3V
C023	F1J0J106A004	CERAMIC	10U K	6.3V
C023	F1J0J106A020	CERAMIC	10U K	6.3V
C024	F1G1C104A077	CERAMIC	0.1U K	16V
C025	F1J0J106A004	CERAMIC	10U K	6.3V
C025	F1J0J106A020	CERAMIC	10U K	6.3V
C027	F1J1E105A171	CERAMIC	1U K	25V
C5505	F1J0J106A004	CERAMIC	10U K	6.3V
	F1J0J106A020	CERAMIC	10U K	6.3V
C5506	F1G1H103A706	CERAMIC	0.01U K	50V
C5507	F1H0J4750004	CERAMIC	4.7U K	6.3V
C5508	F1G1C104A077	CERAMIC	0.1U K	16V
C5509	F1J0J106A004	CERAMIC	10U K	6.3V
	F1J0J106A020	CERAMIC	10U K	6.3V
C5510	F1G1C104A077	CERAMIC	0.1U K	16V
C5511	F1G1H1020008	CERAMIC	1000P K	50V
C5512	F1G1C104A077	CERAMIC	0.1U K	16V
C5513	F1G1C104A077	CERAMIC	0.1U K	16V
C5514	F1G1H1020008	CERAMIC	1000P K	50V
C5515	F1G1H1020008	CERAMIC	1000P K	50V
C5516	F1G1H103A706	CERAMIC	0.01U K	50V
C5517	F1G1H221A737	CERAMIC	220P J	50V
C5518	F1G1C104A077	CERAMIC	0.1U K	16V
C5519	F1G1H103A706	CERAMIC	0.01U K	50V
C5520	F1G1C104A077	CERAMIC	0.1U K	16V
C5522	F1G1H390A541	CERAMIC	39P J	50V
C5523	F1J0J106A004	CERAMIC	10U K	6.3V
	F1J0J106A020	CERAMIC	10U K	6.3V
C5525	F1G1H221A737	CERAMIC	220P J	50V

Schematic Location	Part No.	Description
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C5527	F1G1H103A706	CERAMIC	0.01U K	50V
C5528	F1G1C104A077	CERAMIC	0.1U K	16V
C5531	F1G1C104A077	CERAMIC	0.1U K	16V
C5532	F1J0J106A004	CERAMIC	10U K	6.3V
C5532	F1J0J106A020	CERAMIC	10U K	6.3V
C5533	F1G1C104A077	CERAMIC	0.1U K	16V
C5534	F1G1H103A706	CERAMIC	0.01U K	50V
C5535	F1G1H1020008	CERAMIC	1000P K	50V
C5536	F1G1H221A737	CERAMIC	220P J	50V
C5537	F1J0J106A004	CERAMIC	10U K	6.3V
	F1J0J106A020	CERAMIC	10U K	6.3V
C5538	F1G1H1020008	CERAMIC	1000P K	50V
C5539	F1G1H103A706	CERAMIC	0.01U K	50V
C5540	F1G1H1020008	CERAMIC	1000P K	50V
C5541	F1G1H103A706	CERAMIC	0.01U K	50V
C5542	F1J0J106A004	CERAMIC	10U K	6.3V
	F1J0J106A020	CERAMIC	10U K	6.3V
C5543	F1G1H103A706	CERAMIC	0.01U K	50V
C5544	F1G1A105A047	CERAMIC	1U K	10V
C5546	F1G1C104A077	CERAMIC	0.1U K	16V
C5547	F1G1H392A571	CERAMIC	3900P K	50V
C5549	F1G1C104A077	CERAMIC	0.1U K	16V
C5550	F1G1H103A706	CERAMIC	0.01U K	50V
C5551	F1G1H1020008	CERAMIC	1000P K	50V
C5552	F1G1C104A077	CERAMIC	0.1U K	16V
C5553	F1G1H103A706	CERAMIC	0.01U K	50V
C5554	F1J0J106A004	CERAMIC	10U K	6.3V
	F1J0J106A020	CERAMIC	10U K	6.3V
C5555	F1G1C104A077	CERAMIC	0.1U K	16V
C5556	F1J0J106A004	CERAMIC	10U K	6.3V
	F1J0J106A020	CERAMIC	10U K	6.3V
C5557	F1G1A105A047	CERAMIC	1U K	10V
C5558	F1G1H1020008	CERAMIC	1000P K	50V
C5559	F1G1H1020008	CERAMIC	1000P K	50V
C5560	F1G1A105A047	CERAMIC	1U K	10V
C5561	F1G1H1020008	CERAMIC	1000P K	50V
C5562	F1G1C104A077	CERAMIC	0.1U K	16V
C5563	F1G1C104A077	CERAMIC	0.1U K	16V
C5565	F1J0J106A004	CERAMIC	10U K	6.3V
	F1J0J106A020	CERAMIC	10U K	6.3V
C5566	F1G1A105A047	CERAMIC	1U K	10V
C5567	F1H0J4750004	CERAMIC	4.7U K	6.3V
C5568	F1G1H1020008	CERAMIC	1000P K	50V
C5569	F1G1C104A077	CERAMIC	0.1U K	16V
C5570	F1J0J106A004	CERAMIC	10U K	6.3V
	F1J0J106A020	CERAMIC	10U K	6.3V
C5571	F1G1C104A077	CERAMIC	0.1U K	16V
C5572	F1G1A105A047	CERAMIC	1U K	10V
C5574	F1G1A105A047	CERAMIC	1U K	10V
C5575	F1G1A105A047	CERAMIC	1U K	10V
C5576	F1G1A105A047	CERAMIC	1U K	10V
C5577	F1G1A105A047	CERAMIC	1U K	10V
C5578	F1G1A105A047	CERAMIC	1U K	10V
C5579	F1G1A105A047	CERAMIC	1U K	10V

Schematic Location	Part No.	Description
C5580	F1G1A105A047	CERAMIC 1U K 10V
C5581	F1G1E473A091	CERAMIC 0.047U K 25V
C5583	F1G1E473A091	CERAMIC 0.047U K 25V
C5585	F1G1H103A706	CERAMIC 0.01U K 50V
C5586	F1G1E473A091	CERAMIC 0.047U K 25V
C5588	F1G1E473A091	CERAMIC 0.047U K 25V
C5590	F1G1E473A091	CERAMIC 0.047U K 25V
C5592	F1G1C104A077	CERAMIC 0.1U K 16V
C5593	F1G1E473A091	CERAMIC 0.047U K 25V
C5595	F1G1E473A091	CERAMIC 0.047U K 25V
C5597	F1G1H103A706	CERAMIC 0.01U K 50V
C5598	F1G1E473A091	CERAMIC 0.047U K 25V
C5600	F1G1E473A091	CERAMIC 0.047U K 25V
C5602	F1G1E473A091	CERAMIC 0.047U K 25V
C5606	F1G1H390A541	CERAMIC 39P J 50V
C5613	F1H1H1500009	CERAMIC 15P J 50V
C5614	F1H1H1500009	CERAMIC 15P J 50V
C5615	F1G1C104A077	CERAMIC 0.1U K 16V
C5616	F1G1C104A077	CERAMIC 0.1U K 16V
C5618	F1G1C104A077	CERAMIC 0.1U K 16V
C5619	F1G1H150A541	CERAMIC 15P J 50V
C5620	F1G1H150A541	CERAMIC 15P J 50V
C5650	F1J0J106A004	CERAMIC 10U K 6.3V
	F1J0J106A020	CERAMIC 10U K 6.3V
C5652	F1G1A684A047	CERAMIC 0.68U K 10V
C5653	F1G1C104A077	CERAMIC 0.1U K 16V
C5658	F1G1A2240008	CERAMIC 0.22U K 10V
C5661	F1G1C104A077	CERAMIC 0.1U K 16V
C5700	F1G1A105A047	CERAMIC 1U K 10V
C5701	F1G1C104A077	CERAMIC 0.1U K 16V
C5702	F1G1A105A047	CERAMIC 1U K 10V
C5703	F1G1C104A077	CERAMIC 0.1U K 16V
C5704	F1G1C104A077	CERAMIC 0.1U K 16V
C5705	F1G1C104A077	CERAMIC 0.1U K 16V
C5707	F1G1C104A077	CERAMIC 0.1U K 16V
C5708	F1G1C104A077	CERAMIC 0.1U K 16V
C5709	F1G1C104A077	CERAMIC 0.1U K 16V
C5711	F1G1C104A077	CERAMIC 0.1U K 16V
C5712	F1G1C104A077	CERAMIC 0.1U K 16V
C5713	F1G1C104A077	CERAMIC 0.1U K 16V
C5714	F1J0J106A004	CERAMIC 10U K 6.3V
	F1J0J106A020	CERAMIC 10U K 6.3V
C5715	F1J0J106A004	CERAMIC 10U K 6.3V
	F1J0J106A020	CERAMIC 10U K 6.3V
C5750	F1G1A105A047	CERAMIC 1U K 10V
C5902	F1G1A105A047	CERAMIC 1U K 10V
C5903	F1G1A474A052	CERAMIC 0.47U K 10V
C5905	F1G1C104A077	CERAMIC 0.1U K 16V
C6330	F1G1C104A077	CERAMIC 0.1U K 16V
C6332	F2G1C221A066	ELECT 220U M 16V
C6530	F1G1C104A077	CERAMIC 0.1U K 16V
C6531	F1G1C104A077	CERAMIC 0.1U K 16V
C6560	F1G1C104A077	CERAMIC 0.1U K 16V
C6561	F1G1C104A077	CERAMIC 0.1U K 16V

Schematic Location	Part No.	Description
C6600	F1G1C104A077	CERAMIC 0.1U K 16V
C6601	F1G1A105A047	CERAMIC 1U K 10V
C6602	F2G1C471A066	ELECT 470U M 16V
C6701	F1G1C104A077	CERAMIC 0.1U K 16V
C6702	F1G1C104A077	CERAMIC 0.1U K 16V
C6703	F1J0J106A004	CERAMIC 10U K 6.3V
C6703	F1J0J106A020	CERAMIC 10U K 6.3V
C6706	F1G1C104A077	CERAMIC 0.1U K 16V
C6707	F2G1C471A066	ELECT 470U M 16V
C6708	F1G1A2240008	CERAMIC 0.22U K 10V
C6720	F1H0J4750004	CERAMIC 4.7U K 6.3V
C6721	F1G1C104A077	CERAMIC 0.1U K 16V
C6722	F1G1H223A720	CERAMIC 0.022U K 50V
C6723	F1G1A105A047	CERAMIC 1U K 10V
C6725	F1G1H392A571	CERAMIC 3900P K 50V
C6726	F1G1A105A047	CERAMIC 1U K 10V
C6727	F2G1C471A066	ELECT 470U M 16V
C6728	F1G1H103A706	CERAMIC 0.01U K 50V
C6729	F1G1C104A077	CERAMIC 0.1U K 16V
C6730	F1G1H1020008	CERAMIC 1000P K 50V
C6740	F1G1A2240008	CERAMIC 0.22U K 10V
C6741	F1G1C104A077	CERAMIC 0.1U K 16V
C6742	F1G1C104A077	CERAMIC 0.1U K 16V
C6743	F2G1C221A066	ELECT 220U M 16V
C6752	F1G1E473A091	CERAMIC 0.047U K 25V
C6753	F1G1A105A047	CERAMIC 1U K 10V
C6754	F1G1A105A047	CERAMIC 1U K 10V
DIODES		
D6700	B0ACCK000005	DIODE 1SS355-TE-17
	B0ACDJ000007	DIODE 1SS352-(TPH3)
	DDDA2J10100LG	DIODE DA2J10100L
D6720	B0JCND000033	DIODE CRS20I30A
	B0JCND000034	DIODE CRS20I30A
INTEGRATED CIRCUITS		
IC001	C1AB00003725	IC LV4906V-TLM-H
IC5500	C1AB00003726	IC ZR39748BGCG
IC5650	C0EBY0000980	IC XC6108N28AMR
IC5660	C0EBY0000980	IC XC6108N28AMR
IC5700	C3ABSY000092	IC H5PS5162FFR-25C
	QXXAVD265—M	IC V59C1512164QDJ25
IC5750	QXXAAJQ1300—	IC S25FL064P0XMFIO N8LJ
IC5750A	C3FBPY000228	IC S25FL064P0XMFIO00
IC5900	C0EBY0000980	IC XC6108N28AMR
IC6530	C0JBAA000502	“IC TC7SET08FU(5L,JF,T”
	C0JBAA000505	IC 74AHCT1G08GW
IC6560	C0JBAA000502	“IC TC7SET08FU(5L,JF,T”
	C0JBAA000505	IC 74AHCT1G08GW
IC6600	C0DBZY00458	IC RT9711CGB
IC6700	C0CBAYG00009	IC LM1117S-ADJ
IC6720	C0DBAYY01120	IC LV5893M-TE-L-E
IC6750	C0DBGYY02242	IC AP2128K-ADJTRG1

Schematic Location	Part No.	Description
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COILS

L001	J0JCC0000371	"INDUCTOR , 120 OHM"
L002	G1C220MA0445	"INDUCTOR ,22UH"
L003	G1C220MA0445	"INDUCTOR ,22UH"
L004	G1C220MA0445	"INDUCTOR ,22UH"
L005	G1C220MA0445	"INDUCTOR ,22UH"
L010	J0JYC0000381	"INDUCTOR , 220 OHM"
L011	J0JYC0000381	"INDUCTOR , 220 OHM"
L012	J0JYC0000381	"INDUCTOR , 220 OHM"
L013	J0JYC0000381	"INDUCTOR , 220 OHM"
L5500	J0JCC0000371	"INDUCTOR , 120 OHM"
L5501	J0JCC0000371	"INDUCTOR , 120 OHM"
L5502	J0JCC0000371	"INDUCTOR , 120 OHM"
L5503	J0JYC0000381	"INDUCTOR , 220 OHM"
L5504	J0JYC0000381	"INDUCTOR , 220 OHM"
L5505	J0JCC0000371	"INDUCTOR , 120 OHM"
L5506	J0JCC0000371	"INDUCTOR , 120 OHM"
L5507	J0JCC0000371	"INDUCTOR , 120 OHM"
L5508	J0JCC0000371	"INDUCTOR , 120 OHM"
L5509	J0JCC0000371	"INDUCTOR , 120 OHM"
L5510	J0JCC0000371	"INDUCTOR , 120 OHM"
L5511	J0JCC0000371	"INDUCTOR , 120 OHM"
L5512	D0GB750JA072	MT-GLAZE 75 JA 1/10W
L5513	J0JCC0000371	"INDUCTOR , 120 OHM"
L5514	J0JCC0000371	"INDUCTOR , 120 OHM"
L5515	J0JCC0000371	"INDUCTOR , 120 OHM"
L5516	G1CR22JA0041	"INDUCTOR,0.22U J"
L6301	D0GDR00JA072	MT-GLAZE 0.000 ZA 1/10W
	D0GDR00Z0002	MT-GLAZE 0.000 ZA 1/10W
L6308	D0GDR00JA072	MT-GLAZE 0.000 ZA 1/10W
	D0GDR00Z0002	MT-GLAZE 0.000 ZA 1/10W
L6313	D1HYR004A012	R-NETWORK 0X4 0.063W
L6314	D1HYR004A012	R-NETWORK 0X4 0.063W
L6315	D1HYR004A012	R-NETWORK 0X4 0.063W
L6720	G1C220MA0445	"INDUCTOR ,22UH"
L6721	D0GDR00JA072	MT-GLAZE 0.000 ZA 1/10W
	D0GDR00Z0002	MT-GLAZE 0.000 ZA 1/10W
L6722	D0GDR00JA072	MT-GLAZE 0.000 ZA 1/10W
L6722	D0GDR00Z0002	MT-GLAZE 0.000 ZA 1/10W

TRANSISTORS

Q6329	B1CHPD000006	TR CPH3338-T-TL-E
Q6330	T2SC2859-Y—P	TR 2SC2859-Y TE85L
Q6331	B1ABCE000028	TR MMBTSC3928R
	B1ABDF000013	TR 2SC3928A1R
	B1ABDF000024	TR 2SC3928A1S
Q6332	B1ABCE000028	TR MMBTSC3928R
	B1ABDF000013	TR 2SC3928A1R
	B1ABDF000024	TR 2SC3928A1S
Q6700	B1ABCE000028	TR MMBTSC3928R
	B1ABDF000013	TR 2SC3928A1R
	B1ABDF000024	TR 2SC3928A1S
Q6701	B1CHPD000006	TR CPH3338-T-TL-E
Q6720	B1ABCE000028	TR MMBTSC3928R

Schematic Location	Part No.	Description
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	B1ABDF000013	TR 2SC3928A1R
	B1ABDF000024	TR 2SC3928A1S
Q6721	B1ABCE000028	TR MMBTSC3928R
	B1ABDF000013	TR 2SC3928A1R
	B1ABDF000024	TR 2SC3928A1S
Q6730	B1CFRC000023	TR MCH6437-P-TL-E
Q6740	B1ABCE000028	TR MMBTSC3928R
	B1ABDF000013	TR 2SC3928A1R
	B1ABDF000024	TR 2SC3928A1S
Q6741	B1ABCE000028	TR MMBTSC3928R
	B1ABDF000013	TR 2SC3928A1R
	B1ABDF000024	TR 2SC3928A1S
Q6742	B1CFRC000023	TR MCH6437-P-TL-E

RESISTORS

R004	D0GB101JA069	MT-GLAZE 100 JA 1/10W
R005	D0GB101JA069	MT-GLAZE 100 JA 1/10W
R006	D0GB101JA069	MT-GLAZE 100 JA 1/10W
R007	D0GBR00JA071	MT-GLAZE 0.000 ZA 1/10W
R008	D0GBR00JA071	MT-GLAZE 0.000 ZA 1/10W
R5500	D0GB103JA072	MT-GLAZE 10K JA 1/10W
R5501	D0GB103JA072	MT-GLAZE 10K JA 1/10W
R5502	D0GBR00JA071	MT-GLAZE 0.000 ZA 1/10W
R5503	D0GBR00JA071	MT-GLAZE 0.000 ZA 1/10W
R5504	D0GBR00JA071	MT-GLAZE 0.000 ZA 1/10W
R5505	D0GB123ZA038	MT-GLAZE 12K FA 1/10W
R5506	D0GB821ZA037	MT-GLAZE 820 FA 1/10W
R5507	D0GB102JA071	MT-GLAZE 1K JA 1/10W
R5508	D0GB123ZA038	MT-GLAZE 12K FA 1/10W
R5509	D0GB472ZA038	MT-GLAZE 4.7K FA 1/10W
R5510	D0GB472ZA038	MT-GLAZE 4.7K FA 1/10W
R5513	D0GB820JA072	MT-GLAZE 82 JA 1/10W
R5514	D0GB100JA072	MT-GLAZE 10 JA 1/10W
R5516	D0GB101JA069	MT-GLAZE 100 JA 1/10W
R5517	D0GB101JA069	MT-GLAZE 100 JA 1/10W
R5518	D0GB101JA069	MT-GLAZE 100 JA 1/10W
R5519	D0GB101JA069	MT-GLAZE 100 JA 1/10W
R5520	D0GBR00JA071	MT-GLAZE 0.000 ZA 1/10W
R5522	D0GB102JA071	MT-GLAZE 1K JA 1/10W
R5523	D0GB103JA072	MT-GLAZE 10K JA 1/10W
R5524	D0GB391ZA037	MT-GLAZE 390 FA 1/10W
R5525	D0GB472JA072	MT-GLAZE 4.7K JA 1/10W
R5526	D0GB472JA072	MT-GLAZE 4.7K JA 1/10W
R5527	D0GBR00JA071	MT-GLAZE 0.000 ZA 1/10W
R5528	D0GBR00JA071	MT-GLAZE 0.000 ZA 1/10W
R5529	D0GB333JA070	MT-GLAZE 33K JA 1/10W
R5530	D0GB273JA072	MT-GLAZE 27K JA 1/10W
R5531	D0GB333JA070	MT-GLAZE 33K JA 1/10W
R5532	D0GB273JA072	MT-GLAZE 27K JA 1/10W
R5533	D0GB333JA070	MT-GLAZE 33K JA 1/10W
R5534	D0GB273JA072	MT-GLAZE 27K JA 1/10W
R5535	D0GB333JA070	MT-GLAZE 33K JA 1/10W
R5536	D0GB273JA072	MT-GLAZE 27K JA 1/10W
R5537	D0GB333JA070	MT-GLAZE 33K JA 1/10W

Schematic Location	Part No.	Description
R5538	D0GB273JA072	MT-GLAZE 27K JA 1/10W
R5539	D0GB333JA070	MT-GLAZE 33K JA 1/10W
R5540	D0GB273JA072	MT-GLAZE 27K JA 1/10W
R5541	D0GB333JA070	MT-GLAZE 33K JA 1/10W
R5542	D0GB273JA072	MT-GLAZE 27K JA 1/10W
R5543	D0GB273JA072	MT-GLAZE 27K JA 1/10W
R5544	D0GB333JA070	MT-GLAZE 33K JA 1/10W
R5545	D0GBR00JA071	MT-GLAZE 0.000 ZA 1/10W
R5546	D0GB750JA072	MT-GLAZE 75 JA 1/10W
R5547	D0GBR00JA071	MT-GLAZE 0.000 ZA 1/10W
R5548	D0GB750JA072	MT-GLAZE 75 JA 1/10W
R5549	D0GBR00JA071	MT-GLAZE 0.000 ZA 1/10W
R5550	D0GBR00JA071	MT-GLAZE 0.000 ZA 1/10W
R5551	D0GB750JA072	MT-GLAZE 75 JA 1/10W
R5552	D0GBR00JA071	MT-GLAZE 0.000 ZA 1/10W
R5553	D0GB750JA072	MT-GLAZE 75 JA 1/10W
R5554	D0GBR00JA071	MT-GLAZE 0.000 ZA 1/10W
R5555	D0GB750JA072	MT-GLAZE 75 JA 1/10W
R5556	D0GBR00JA071	MT-GLAZE 0.000 ZA 1/10W
R5557	D0GB750JA072	MT-GLAZE 75 JA 1/10W
R5558	D0GBR00JA071	MT-GLAZE 0.000 ZA 1/10W
R5559	D0GB750JA072	MT-GLAZE 75 JA 1/10W
R5560	D0GBR00JA071	MT-GLAZE 0.000 ZA 1/10W
R5561	D0GBR00JA071	MT-GLAZE 0.000 ZA 1/10W
R5562	D0GB750JA072	MT-GLAZE 75 JA 1/10W
R5563	D0GBR00JA071	MT-GLAZE 0.000 ZA 1/10W
R5564	D0GB750JA072	MT-GLAZE 75 JA 1/10W
R5565	D0GBR00JA071	MT-GLAZE 0.000 ZA 1/10W
R5566	D0GB750JA072	MT-GLAZE 75 JA 1/10W
R5567	D0GBR00JA071	MT-GLAZE 0.000 ZA 1/10W
R5568	D0GB681JA069	MT-GLAZE 680 JA 1/10W
R5569	D0GB105JA071	MT-GLAZE 1M JA 1/10W
R5570	D0GBR00JA071	MT-GLAZE 0.000 ZA 1/10W
R5572	D0GB101JA069	MT-GLAZE 100 JA 1/10W
R5573	D0GB101JA069	MT-GLAZE 100 JA 1/10W
R5574	D0GB103JA072	MT-GLAZE 10K JA 1/10W
R5575	D0GB103JA072	MT-GLAZE 10K JA 1/10W
R5576	D0GB103JA072	MT-GLAZE 10K JA 1/10W
R5577	D0GBR00JA071	MT-GLAZE 0.000 ZA 1/10W
R5578	D0GB103JA072	MT-GLAZE 10K JA 1/10W
R5579	D0GB103JA072	MT-GLAZE 10K JA 1/10W
R5581	D0GB103JA072	MT-GLAZE 10K JA 1/10W
R5582	D0GB222JA072	MT-GLAZE 2.2K JA 1/10W
R5583	D0GB101JA069	MT-GLAZE 100 JA 1/10W
R5584	D0GB101JA069	MT-GLAZE 100 JA 1/10W
R5585	D0GBR00JA071	MT-GLAZE 0.000 ZA 1/10W
R5586	D0GBR00JA071	MT-GLAZE 0.000 ZA 1/10W
R5587	D0GB102JA071	MT-GLAZE 1K JA 1/10W
R5588	D0GB102JA071	MT-GLAZE 1K JA 1/10W
R5589	D0GB102JA071	MT-GLAZE 1K JA 1/10W
R5591	D0GB472JA072	MT-GLAZE 4.7K JA 1/10W
R5592	D0GB472JA072	MT-GLAZE 4.7K JA 1/10W
R5593	D0GB103JA072	MT-GLAZE 10K JA 1/10W
R5594	D0GB103JA072	MT-GLAZE 10K JA 1/10W

Schematic Location	Part No.	Description
R5598	D0GB101JA069	MT-GLAZE 100 JA 1/10W
R5599	D0GB103JA072	MT-GLAZE 10K JA 1/10W
R5650	D0GBR00JA071	MT-GLAZE 0.000 ZA 1/10W
R5653	D0GB101JA069	MT-GLAZE 100 JA 1/10W
R5654	D0GB472JA072	MT-GLAZE 4.7K JA 1/10W
R5659	D0GB101JA069	MT-GLAZE 100 JA 1/10W
R5662	D0GB472JA072	MT-GLAZE 4.7K JA 1/10W
R5700	D0GB101ZA037	MT-GLAZE 100 FA 1/10W
R5701	D0GB101JA069	MT-GLAZE 100 JA 1/10W
R5702	D0GB101ZA037	MT-GLAZE 100 FA 1/10W
R5750	D0GB103JA072	MT-GLAZE 10K JA 1/10W
R5751	D0GB103JA072	MT-GLAZE 10K JA 1/10W
R5753	D0GB103JA072	MT-GLAZE 10K JA 1/10W
R5900	D0GB101JA069	MT-GLAZE 100 JA 1/10W
R5901	D0GB101JA069	MT-GLAZE 100 JA 1/10W
R5902	D0GB103JA072	MT-GLAZE 10K JA 1/10W
R5903	D0GB821ZA037	MT-GLAZE 820 FA 1/10W
R5908	D0GBR00JA071	MT-GLAZE 0.000 ZA 1/10W
R5910	D0GB103ZA038	MT-GLAZE 10K FA 1/10W
R5950	D0GB103JA072	MT-GLAZE 10K JA 1/10W
R5952	D0GB102JA071	MT-GLAZE 1K JA 1/10W
R5954	D0GB102JA071	MT-GLAZE 1K JA 1/10W
R5956	D0GB103JA072	MT-GLAZE 10K JA 1/10W
R5957	D0GB102JA071	MT-GLAZE 1K JA 1/10W
R6314	D0GBR00JA071	MT-GLAZE 0.000 ZA 1/10W
R6315	D0GBR00JA071	MT-GLAZE 0.000 ZA 1/10W
R6317	D0GBR00JA071	MT-GLAZE 0.000 ZA 1/10W
R6318	D0GBR00JA071	MT-GLAZE 0.000 ZA 1/10W
R6321	D0GBR00JA071	MT-GLAZE 0.000 ZA 1/10W
R6322	D0GBR00JA071	MT-GLAZE 0.000 ZA 1/10W
R6323	D0GBR00JA071	MT-GLAZE 0.000 ZA 1/10W
R6324	D0GBR00JA071	MT-GLAZE 0.000 ZA 1/10W
R6330	D0GZ151JA019	MT-GLAZE 150 JA 1W
R6331	D0GZ151JA019	MT-GLAZE 150 JA 1W
R6332	D0GZ151JA019	MT-GLAZE 150 JA 1W
R6337	D0GB105JA071	MT-GLAZE 1M JA 1/10W
R6339	D0GB103JA072	MT-GLAZE 10K JA 1/10W
R6340	D0GB103JA072	MT-GLAZE 10K JA 1/10W
R6341	D0GBR00JA071	MT-GLAZE 0.000 ZA 1/10W
R6342	D0GB103JA072	MT-GLAZE 10K JA 1/10W
R6344	D0GB103JA072	MT-GLAZE 10K JA 1/10W
R6346	D0GB103JA072	MT-GLAZE 10K JA 1/10W
R6348	D0GB103JA072	MT-GLAZE 10K JA 1/10W
R6350	D0GB103JA072	MT-GLAZE 10K JA 1/10W
R6502	D0GB102JA071	MT-GLAZE 1K JA 1/10W
R6515	D0GB103JA072	MT-GLAZE 10K JA 1/10W
R6518	D0GB103JA072	MT-GLAZE 10K JA 1/10W
R6530	D0GB473JA072	MT-GLAZE 47K JA 1/10W
R6531	D0GB473JA072	MT-GLAZE 47K JA 1/10W
R6532	D0GB102JA071	MT-GLAZE 1K JA 1/10W
R6533	D0GB103JA072	MT-GLAZE 10K JA 1/10W
R6534	D0GB470J0002	MT-GLAZE 47 JA 1/10W
R6535	D0GB470J0002	MT-GLAZE 47 JA 1/10W
R6536	D0GB102JA071	MT-GLAZE 1K JA 1/10W

Schematic Location	Part No.	Description
R6546	D0GBR00JA071	MT-GLAZE 0.000 ZA 1/10W
R6547	D0GBR00JA071	MT-GLAZE 0.000 ZA 1/10W
R6549	D0GB223JA070	MT-GLAZE 22K JA 1/10W
R6550	D0GB470J0002	MT-GLAZE 47 JA 1/10W
R6560	D0GB473JA072	MT-GLAZE 47K JA 1/10W
R6561	D0GB473JA072	MT-GLAZE 47K JA 1/10W
R6562	D0GB102JA071	MT-GLAZE 1K JA 1/10W
R6563	D0GB103JA072	MT-GLAZE 10K JA 1/10W
R6564	D0GB470J0002	MT-GLAZE 47 JA 1/10W
R6565	D0GB470J0002	MT-GLAZE 47 JA 1/10W
R6566	D0GB102JA071	MT-GLAZE 1K JA 1/10W
R6576	D0GBR00JA071	MT-GLAZE 0.000 ZA 1/10W
R6577	D0GBR00JA071	MT-GLAZE 0.000 ZA 1/10W
R6579	D0GBR00JA071	MT-GLAZE 0.000 ZA 1/10W
R6581	D0GB470J0002	MT-GLAZE 47 JA 1/10W
R6582	D0GB223JA070	MT-GLAZE 22K JA 1/10W
R6600	D0GBR00JA071	MT-GLAZE 0.000 ZA 1/10W
R6602	D0GB103JA072	MT-GLAZE 10K JA 1/10W
R6604	D0GB103JA072	MT-GLAZE 10K JA 1/10W
R6606	D0GBR00JA071	MT-GLAZE 0.000 ZA 1/10W
R6607	D0GBR00JA071	MT-GLAZE 0.000 ZA 1/10W
R6608	D0GDR00JA072	MT-GLAZE 0.000 ZA 1/10W
R6608	D0GDR00Z0002	MT-GLAZE 0.000 ZA 1/10W
R6700	D0GB223JA070	MT-GLAZE 22K JA 1/10W
R6702	D0GB103JA072	MT-GLAZE 10K JA 1/10W
R6703	D0GB103JA072	MT-GLAZE 10K JA 1/10W
R6704	D0GBR00JA071	MT-GLAZE 0.000 ZA 1/10W
R6705	D0GBR00JA071	MT-GLAZE 0.000 ZA 1/10W
R6706	D0GB471ZA037	MT-GLAZE 470 FA 1/10W
R6707	D0GB100JA072	MT-GLAZE 10 JA 1/10W
R6708	D0GB221Z0002	MT-GLAZE 220 FA 1 /10W
R6709	D0GBR00JA071	MT-GLAZE 0.000 ZA 1/10W
R6720	D0GB103JA072	MT-GLAZE 10K JA 1/10W
R6722	D0GB470J0002	MT-GLAZE 47 JA 1/10W
R6723	D0GB103ZA038	MT-GLAZE 10K FA 1/10W
R6724	D0GB102JA071	MT-GLAZE 1K JA 1/10W
R6725	D0GBR00JA071	MT-GLAZE 0.000 ZA 1/10W
R6726	D0GB472ZA038	MT-GLAZE 4.7K FA 1/10W
R6728	D0GB220JA072	MT-GLAZE 22 JA 1/10W
R6729	D0GB103JA072	MT-GLAZE 10K JA 1/10W
R6730	D0GB103JA072	MT-GLAZE 10K JA 1/10W
R6731	D0GB103JA072	MT-GLAZE 10K JA 1/10W
R6732	D0GB103JA072	MT-GLAZE 10K JA 1/10W
R6733	D0GBR00JA071	MT-GLAZE 0.000 ZA 1/10W
R6734	D0GBR00JA071	MT-GLAZE 0.000 ZA 1/10W
R6740	D0GB103JA072	MT-GLAZE 10K JA 1/10W
R6742	D0GB103JA072	MT-GLAZE 10K JA 1/10W
R6743	D0GB223JA070	MT-GLAZE 22K JA 1/10W
R6744	D0GB104JA068	MT-GLAZE 100K JA 1/10W
R6745	D0GBR00JA071	MT-GLAZE 0.000 ZA 1/10W
R6746	D0GBR00JA071	MT-GLAZE 0.000 ZA 1/10W
R6750	D0GB103JA072	MT-GLAZE 10K JA 1/10W
R6755	D0GB681ZA037	MT-GLAZE 680 FA 1/10W
R6756	D0GB332ZA038	MT-GLAZE 3.3K FA 1/10W

Schematic Location	Part No.	Description
R6757	D0GB103ZA038	MT-GLAZE 10K FA 1/10W
R6758	D0GBR00JA071	MT-GLAZE 0.000 ZA 1/10W
RB5501	D1HY2204A012	R-NETWORK 22X4 0.06 3W
RB5951	D1HYR004A012	R-NETWORK 0X4 0.063 W

“ASSY,PWB,ANALOG-COMP-N8LJ”

CAPACITORS

C1020	F2A1V4700087	ELECT	47U M	35V
C1600	F1J0J106A004	CERAMIC	10U K	6.3V
	F1J0J106A020	CERAMIC	10U K	6.3V
C1602	F2A0J2210063	ELECT	220U M	6.3V
C1603	F1H1H104A220	CERAMIC	0.1U Z	50V
C1604	F2A1V4710080	ELECT	470U M	35V
C1610	F1H1H473A918	CERAMIC	0.047U K	50V
C1612	F1H1H104A220	CERAMIC	0.1U Z	50V
C1613	F1H1H104A220	CERAMIC	0.1U Z	50V
C1661	F2A1C1020123	ELECT	1000U M	16V
C1666	F2A1C2220103	ELECT	2200U M	16V
C1704	F1H1H103A219	CERAMIC	0.01U K	50V
C1800	F1H1H104A220	CERAMIC	0.1U Z	50V
C1801	F1J0J106A004	CERAMIC	10U K	6.3V
	F1J0J106A020	CERAMIC	10U K	6.3V
C1802	F1H1H103A219	CERAMIC	0.01U K	50V
C1803	F1H1H103A219	CERAMIC	0.01U K	50V
C2405	F1H1H104A220	CERAMIC	0.1U Z	50V
C2410	F1H1H104A220	CERAMIC	0.1U Z	50V
C2411	F1H1H104A220	CERAMIC	0.1U Z	50V
C6100	J0JCC0000371	“INDUCTOR, 120 OHM”		
C6101	J0JCC0000371	“INDUCTOR, 120 OHM”		
C6102	F1H1H102A219	CERAMIC	1000P K	50V
C6104	F1H1H2700008	CERAMIC	27P J	50V
C6105	F1H1H2700008	CERAMIC	27P J	50V
C6106	F1H1H104A220	CERAMIC	0.1U Z	50V
C6107	F2A0J1020089	ELECT	1000U M	6.3V
C6109	CEXLB0J222VDJ	ELECT	2200U M	6.3V
C6110	F1H1H104A220	CERAMIC	0.1U Z	50V
C6111	F1H1H102A219	CERAMIC	1000P K	50V
C6113	F1H1H2200008	CERAMIC	22P J	50V
C6114	F1H1H2200008	CERAMIC	22P J	50V

DIODES

D1613	B0ACCK000005	DIODE 1SS355-TE-17
	B0ACDJ000007	DIODE 1SS352-(TPH3)
	DDDA2J10100LG	DIODE DA2J10100L
D1661	B0JCND000033	DIODE CRS20I30A
	B0JCND000034	DIODE CRS20I30A
D1665	B0JCND000033	DIODE CRS20I30A
	B0JCND000034	DIODE CRS20I30A
D1668	B0ACCK000005	DIODE 1SS355-TE-17
	B0ACDJ000007	DIODE 1SS352-(TPH3)
	DDDA2J10100LG	DIODE DA2J10100L
D1750	B0ACCK000005	DIODE 1SS355-TE-17
	B0ACDJ000007	DIODE 1SS352-(TPH3)

Schematic Location	Part No.	Description
D2405	DDDA2J10100LG	DIODE DA2J10100L
	B0JCGD000002	DIODE RB551V-30-TE-17
	B0JCGD000014	DIODE DSF05S30U

INTEGRATED CIRCUITS

IC1600	C0CBAYG00009	IC LM1117S-ADJ
IC2401	C0JBAA000570	"IC TC7SH08F,LJ(T"
IC2402	C0JBAA000570	"IC TC7SH08F,LJ(T"

COILS

L1640	D0GDR00JA072	MT-GLAZE 0.000 ZA 1/10W
	D0GDR00Z0002	MT-GLAZE 0.000 ZA 1/10W
L1641	D0GDR00JA072	MT-GLAZE 0.000 ZA 1/10W
	D0GDR00Z0002	MT-GLAZE 0.000 ZA 1/10W
L1642	D0GDR00JA072	MT-GLAZE 0.000 ZA 1/10W
	D0GDR00Z0002	MT-GLAZE 0.000 ZA 1/10W
L1643	D0GDR00JA072	MT-GLAZE 0.000 ZA 1/10W
	D0GDR00Z0002	MT-GLAZE 0.000 ZA 1/10W
L1700	D0GDR00JA072	MT-GLAZE 0.000 ZA 1/10W
	D0GDR00Z0002	MT-GLAZE 0.000 ZA 1/10W
L1701	D0GDR00JA072	MT-GLAZE 0.000 ZA 1/10W
	D0GDR00Z0002	MT-GLAZE 0.000 ZA 1/10W
L1702	D0GBR00JA071	MT-GLAZE 0.000 ZA 1/10W
L1703	J0JYC0000381	"INDUCTOR , 220 OHM"
L1704	J0JYC0000381	"INDUCTOR , 220 OHM"
L1705	D0GDR00JA072	MT-GLAZE 0.000 ZA 1/10W
	D0GDR00Z0002	MT-GLAZE 0.000 ZA 1/10W
L1706	D0GDR00JA072	MT-GLAZE 0.000 ZA 1/10W
	D0GDR00Z0002	MT-GLAZE 0.000 ZA 1/10W
L1707	J0JYC0000381	"INDUCTOR , 220 OHM"
L1708	J0JYC0000381	"INDUCTOR , 220 OHM"
L1711	D0GDR00JA072	MT-GLAZE 0.000 ZA 1/10W
	D0GDR00Z0002	MT-GLAZE 0.000 ZA 1/10W
L1712	D0GDR00JA072	MT-GLAZE 0.000 ZA 1/10W
	D0GDR00Z0002	MT-GLAZE 0.000 ZA 1/10W
L1716	D0GBR00JA071	MT-GLAZE 0.000 ZA 1/10W
L1801	D0GBR00JA071	MT-GLAZE 0.000 ZA 1/10W
L6102	D0GDR00JA072	MT-GLAZE 0.000 ZA 1/10W
	D0GDR00Z0002	MT-GLAZE 0.000 ZA 1/10W
L6103	J0JCC0000371	"INDUCTOR , 120 OHM"
L6104	J0JCC0000371	"INDUCTOR , 120 OHM"
L6105	J0JYC0000382	"INDUCTOR ,600 OHM"
L1902	D0GDR00JA072	MT-GLAZE 0.000 ZA 1/10W
	D0GDR00Z0002	MT-GLAZE 0.000 ZA 1/10W

TRANSISTORS

Q1610	B1ABCE000028	TR MMBTSC3928R
	B1ABDF000013	TR 2SC3928A1R
	B1ABDF000024	TR 2SC3928A1S
Q1611	B1CHPD000006	TR CPH3338-T-TL-E
Q1750	B1ABCE000028	TR MMBTSC3928R
	B1ABDF000013	TR 2SC3928A1R
	B1ABDF000024	TR 2SC3928A1S
Q1751	B1ABCE000028	TR MMBTSC3928R
	B1ABDF000013	TR 2SC3928A1R

Schematic Location	Part No.	Description
Q1810	B1ABDF000024	TR 2SC3928A1S
	B1ABCE000028	TR MMBTSC3928R
	B1ABDF000013	TR 2SC3928A1R
Q1813	B1ABDF000024	TR 2SC3928A1S
	B1ABCE000028	TR MMBTSC3928R
	B1ABDF000013	TR 2SC3928A1R
	B1ABDF000024	TR 2SC3928A1S

RESISTORS

R1004	D0GBR00JA071	MT-GLAZE 0.000 ZA 1/10W
R1009	D0GBR00JA071	MT-GLAZE 0.000 ZA 1/10W
R1020	D0GBR00JA071	MT-GLAZE 0.000 ZA 1/10W
R1022	D0GBR00JA071	MT-GLAZE 0.000 ZA 1/10W
R1023	D0GB820JA072	MT-GLAZE 82 JA 1/10W
R1024	D0GB750JA072	MT-GLAZE 75 JA 1/10W
R1028	D0GBR00JA071	MT-GLAZE 0.000 ZA 1/10W
R1033	D0GBR00JA071	MT-GLAZE 0.000 ZA 1/10W
R1038	D0GBR00JA071	MT-GLAZE 0.000 ZA 1/10W
R1043	D0GBR00JA071	MT-GLAZE 0.000 ZA 1/10W
R1600	D0GB121ZA038	MT-GLAZE 120 FA 1/10W
R1601	D0GB120JA072	MT-GLAZE 12 JA 1/10W
R1602	D0GB221Z0002	MT-GLAZE 220 FA 1 /10W
R1610	D0GB103JA072	MT-GLAZE 10K JA 1/10W
R1611	D0GBR00JA071	MT-GLAZE 0.000 ZA 1/10W
R1612	D0GB105JA071	MT-GLAZE 1M JA 1/10W
R1616	D0GB103JA072	MT-GLAZE 10K JA 1/10W
R1661	D0GB2R7JA068	MT-GLAZE 2.7 JA 1/10W
R1664	D0GB2R7JA068	MT-GLAZE 2.7 JA 1/10W
R1667	D0GB103JA072	MT-GLAZE 10K JA 1/10W
R1668	D0GB472JA072	MT-GLAZE 4.7K JA 1/10W
R1700	D0GBR00JA071	MT-GLAZE 0.000 ZA 1/10W
R1701	D0GBR00JA071	MT-GLAZE 0.000 ZA 1/10W
R1702	D0GBR00JA071	MT-GLAZE 0.000 ZA 1/10W
R1707	D0GBR00JA071	MT-GLAZE 0.000 ZA 1/10W
R1708	D0GB332JA072	MT-GLAZE 3.3K JA 1/10W
R1750	D0GBR00JA071	MT-GLAZE 0.000 ZA 1/10W
R1751	D0GB182JA072	MT-GLAZE 1.8K JA 1/10W
R1752	D0GB103JA072	MT-GLAZE 10K JA 1/10W
R1753	D0GB103JA072	MT-GLAZE 10K JA 1/10W
R1754	D0GB332JA072	MT-GLAZE 3.3K JA 1/10W
R1776	D0GB103JA072	MT-GLAZE 10K JA 1/10W
R1790	D0GBR00JA071	MT-GLAZE 0.000 ZA 1/10W
R1791	D0GB101JA069	MT-GLAZE 100 JA 1/10W
R1792	D0GBR00JA071	MT-GLAZE 0.000 ZA 1/10W
R1797	D0GBR00JA071	MT-GLAZE 0.000 ZA 1/10W
R1800	D0GBR00JA071	MT-GLAZE 0.000 ZA 1/10W
R1801	D0GB102JA071	MT-GLAZE 1K JA 1/10W
R1802	D0GB102JA071	MT-GLAZE 1K JA 1/10W
R1803	D0GBR00JA071	MT-GLAZE 0.000 ZA 1/10W
R1804	D0GB222JA072	MT-GLAZE 2.2K JA 1/10W
R1810	D0GB331JA069	MT-GLAZE 330 JA 1/10W
R1811	D0GB103JA072	MT-GLAZE 10K JA 1/10W
R1812	D0GB103JA072	MT-GLAZE 10K JA 1/10W
R1813	D0GB331JA069	MT-GLAZE 330 JA 1/10W

Schematic Location	Part No.	Description
R1843	D0GBR00JA071	MT-GLAZE 0.000 ZA 1/10W
R1901	D0GB472ZA038	MT-GLAZE 4.7K FA 1/10W
R1902	D0GB682JA072	MT-GLAZE 6.8K JA 1/10W
R1903	D0GB682JA072	MT-GLAZE 6.8K JA 1/10W
R1904	D0GB392JA072	MT-GLAZE 3.9K JA 1/10W
R1905	D0GB562ZA038	MT-GLAZE 5.6K FA 1/10W
R1906	D0GB103JA072	MT-GLAZE 10K JA 1/10W
R1907	D0GB102JA071	MT-GLAZE 1K JA 1/10W
R1908	D0GB682JA072	MT-GLAZE 6.8K JA 1/10W
R1909	D0GB123JA072	MT-GLAZE 12K JA 1/10W
R1910	D0GB103ZA038	MT-GLAZE 10K FA 1/10W
R1911	D0GB102JA071	MT-GLAZE 1K JA 1/10W
R2400	D0GBR00JA071	MT-GLAZE 0.000 ZA 1/10W
R2401	D0GBR00JA071	MT-GLAZE 0.000 ZA 1/10W
R2405	D0GB101JA069	MT-GLAZE 100 JA 1/10W
R2407	D0GB101JA069	MT-GLAZE 100 JA 1/10W
R2408	D0GB101JA069	MT-GLAZE 100 JA 1/10W
R2409	D0GB101JA069	MT-GLAZE 100 JA 1/10W
R2410	D0GB103JA072	MT-GLAZE 10K JA 1/10W
R2411	D0GB103JA072	MT-GLAZE 10K JA 1/10W
R2412	D0GB103JA072	MT-GLAZE 10K JA 1/10W
R2413	D0GB103JA072	MT-GLAZE 10K JA 1/10W
R2414	D0GB101JA069	MT-GLAZE 100 JA 1/10W
R2415	D0GB101JA069	MT-GLAZE 100 JA 1/10W
R2416	D0GB101JA069	MT-GLAZE 100 JA 1/10W
R2417	D0GB101JA069	MT-GLAZE 100 JA 1/10W
R6100	D0GB101JA069	MT-GLAZE 100 JA 1/10W
R6101	D0GB101JA069	MT-GLAZE 100 JA 1/10W

CRYSTAL / FILTERS

X5500 H0J250500115 "OSC,CRYSTAL 25MHZ"

Schematic Location	Part No.	Description
MISCELLANEOUS		
⚠ A100	1AA0B10N302A0	"ASSY,PWB,DIGITAL_Z-N8LJ"
⚠ A200	1AA0B10N303A0	"ASSY,PWB,ANALOG-COMP-N8LJ"
⚠ A201	1AA0B10N303AA	"ASSY,PWB,ANALOG-N8LJ"
⚠ A202	1AA0B10N303AB	"ASSY,PWB,KEY_SW-N8LJ"
⚠ A300	1AA0B10N285A0	"ASSY,PWB,RC_LED N8LJ"
⚠ A6100	1AV4F1BAZ0090	"TUNER,U/V"
⚠	1AV4F1BAZ0091	"TUNER,U/V"
A3900	B3RAB0000094	"UNIT,REMOCON,RECEIVER"
EL901	L5EDDY00264	"LCD(T315XW03 V6,S02)"
K55SP	K1KA04AA0180	"PLUG,4P"
K5A	K1KY40B00017	"PLUG,HOUSING 40P"
K5B	K1KY32B00007	"PLUG,HOUSING 32P"
K5DL	K1KA04AA0193	"PLUG,4P"
K5LV	K1KY39A00001	"PLUG,39P(40-1)"
K6530	K1FY119E0038	"SOCKET,HDMI 19P"
K6560	K1FY119E0038	"SOCKET,HDMI 19P"
KUSB	K1FY104B0066	"SOCKET,USB 4P"
KUSB	K1FY104B0069	"SOCKET,USB 4P"
K1004	K2HA9YYB0006	"JACK,RCA-9"
K1005	K2HA5YYB0002	"JACK,RCA-5"
K16A	K1KY40BA0348	"SOCKET,PWB 40P"
K16B	K1KY32BA0348	"SOCKET,PWB 32P"
K2400	K1FY115B0027	"SOCKET,D-SUB 15P"
K2401	K2HC1YYB0066	"JACK,PHONE D3.6"
K8CTRA	K1KA04AA0193	"PLUG,4P"
K8C	K1KY03AA0972	"PLUG,PWB 13P"
K8FRA	K1KA06A00534	"PLUG,6P"
K19CTRA	K1KA04BA0061	"PLUG,4P"
⚠ U901	1AV4U20C48100	"UNIT,INVERTER"
SP901	L0AA12C00016	"SPEAKER,8"
SP902	L0AA12C00016	"SPEAKER,8"
⚠ W901	1AV4W10B17902	"CORD,POWER-2.0MK-VTR-02"
⚠	K2CB2YY00047	"CORD,POWER-2.0MK-VTR-02"
⚠ WK5LV-PN	K1PY40Y00013	"CORD, 30P-40P(LVDS)"
⚠ N/A	855.31T08.C06	T-CON

SERVICE PARTS

"For Digital board replacement please get the correct assembly name/part number"

Service Name: ASSY,PWB,DIGITAL_Z-N8LJ

Japan BOM part number: 1AA0B10N302A0

"For Analog board replacement please get the correct assembly name/part number"

Service Name: ASSY,PWB,ANALOG-N8LJ

Japan BOM part number: 1AA0B10N303AA

NOTE: This is a sub-assembly (A201) from ASSY,PWB,ANALOG-COMP-N8LJ (A200)

"For KEW_SW unit replacement please get the correct assembly name/part number"

Service Name: ASSY,PWB,KEY_SW N8LJ

Japan BOM part number: 1AA0B10N303AB

NOTE: This is a sub-assembly (A202) from ASSY,PWB,ANALOG-COMP-N8LJ (A200)

"For RC_LED unit replacement please get the correct assembly name/part number"

Service Name: ASSY,PWB,RC_LED N8LJ

Japan BOM part number: 1AA0B10N285A0

"For Power / Inverter Board replacement please get the correct assembly name/part number"

Service Name: UNIT,INVERTER

Japan BOM part number: 1AV4U20C48100

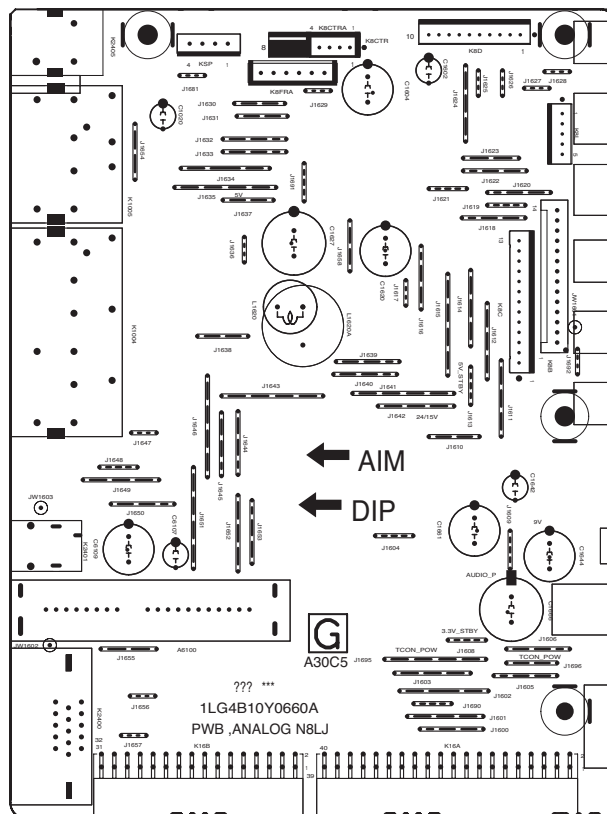
"For T-CON Board replacement please get the correct assembly name/part number"

Service Name: T-CON / PN 855.31T08.C06

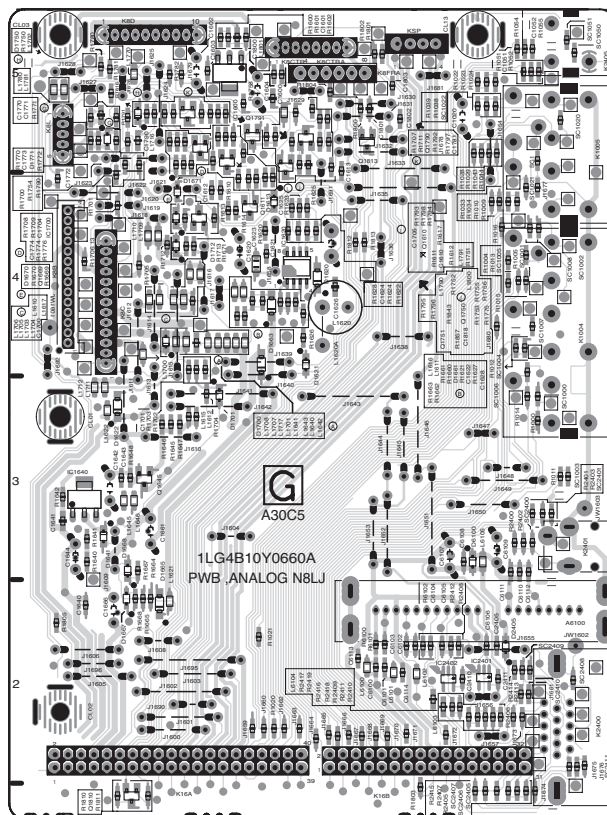
DIGITAL BOARD PARTS SIDE



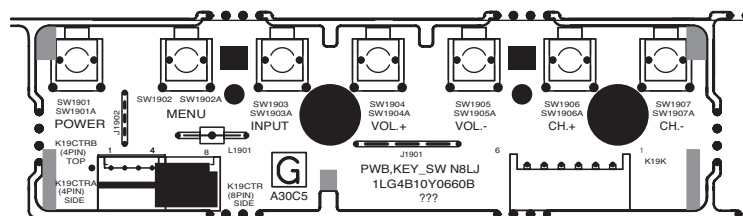
ANALOG BOARD PARTS SIDE



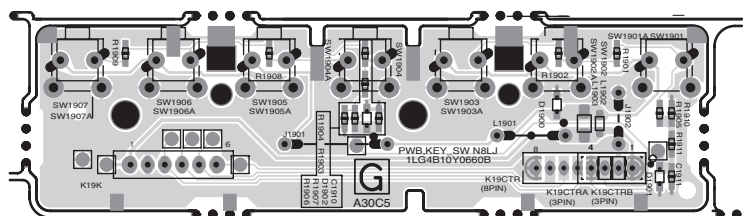
ANALOG BOARD SOLDER SIDE



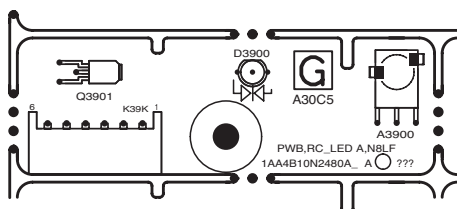
CONTROL BOARD PART SIDE



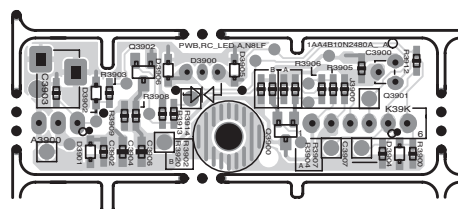
CONTROL BOARD SOLDER SIDE



PWB RC_LED PART SIDE

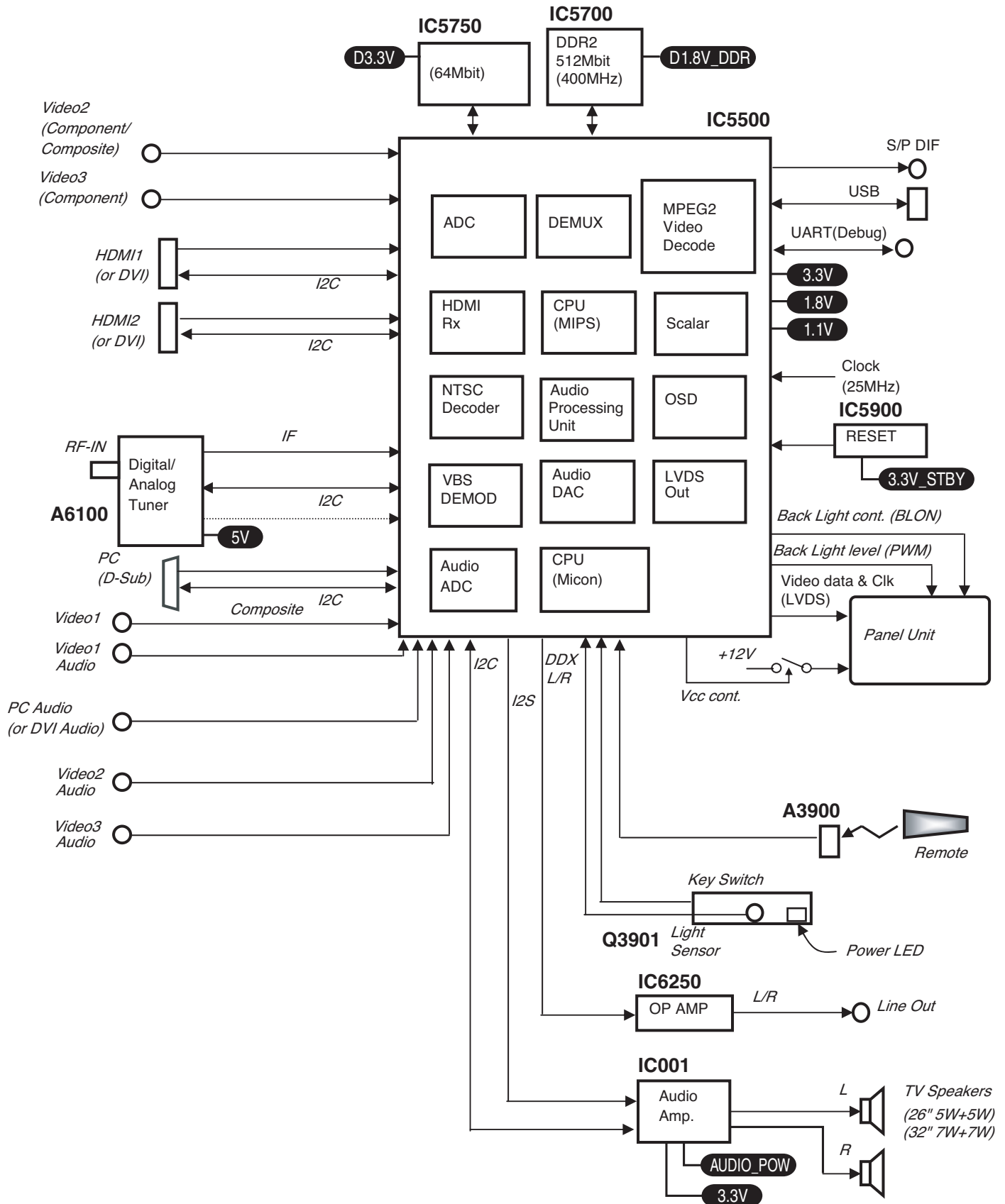


PWB RC_LED SOLDER SIDE



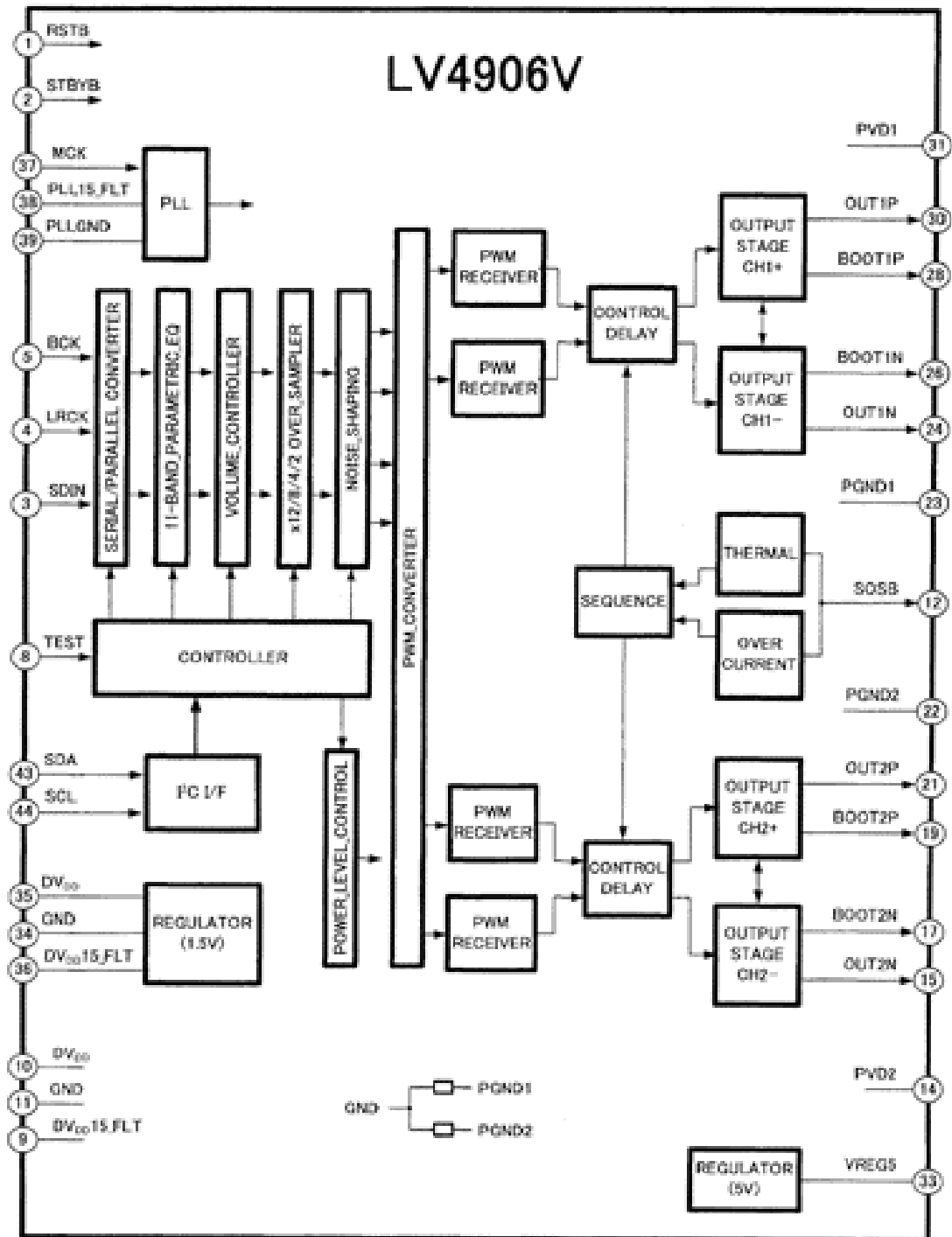
[illegible]

BLOCK DIAGRAM SIGNAL LINES



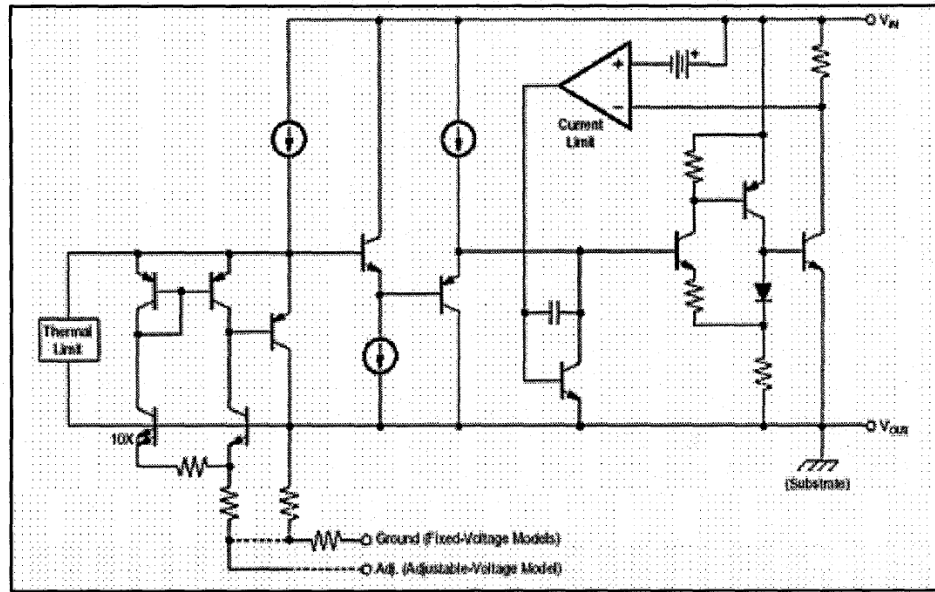
IC BLOCK DIAGRAMS

IC001, Audio AMP

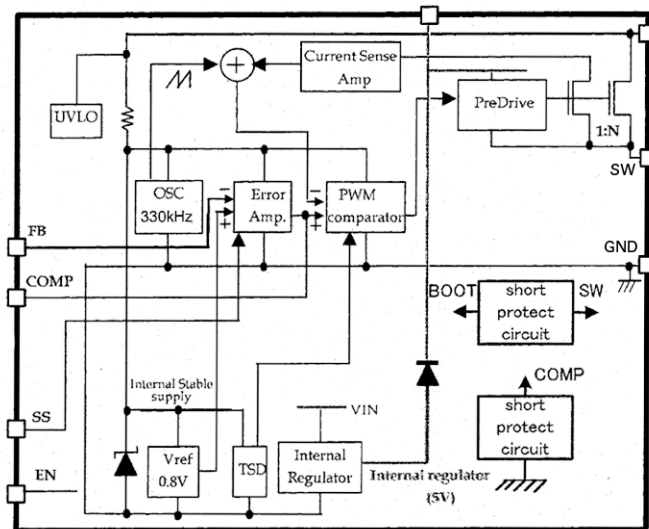


IC BLOCK DIAGRAMS (CONT.)

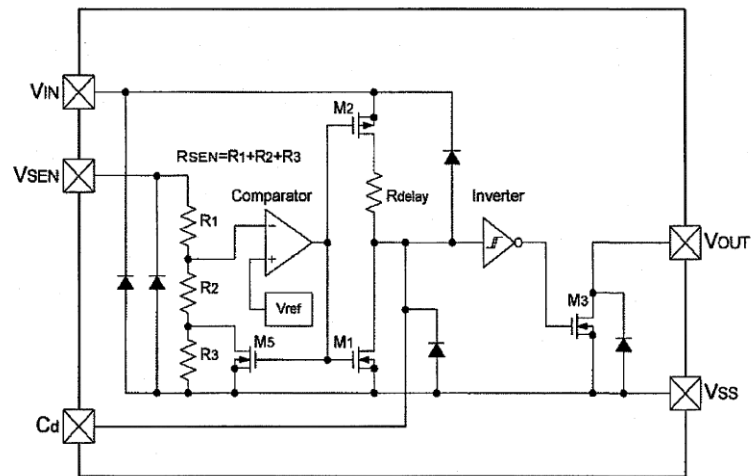
IC1600, IC1640 DC to DC Converter



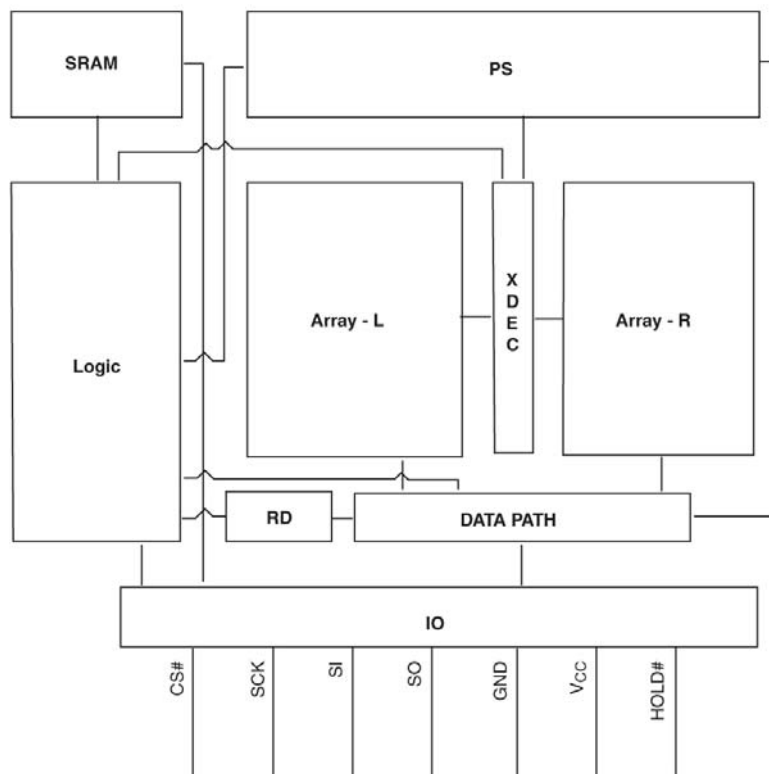
IC1620, DC-DC converter



IC5650, IC5660, IC5900 Voltage detector

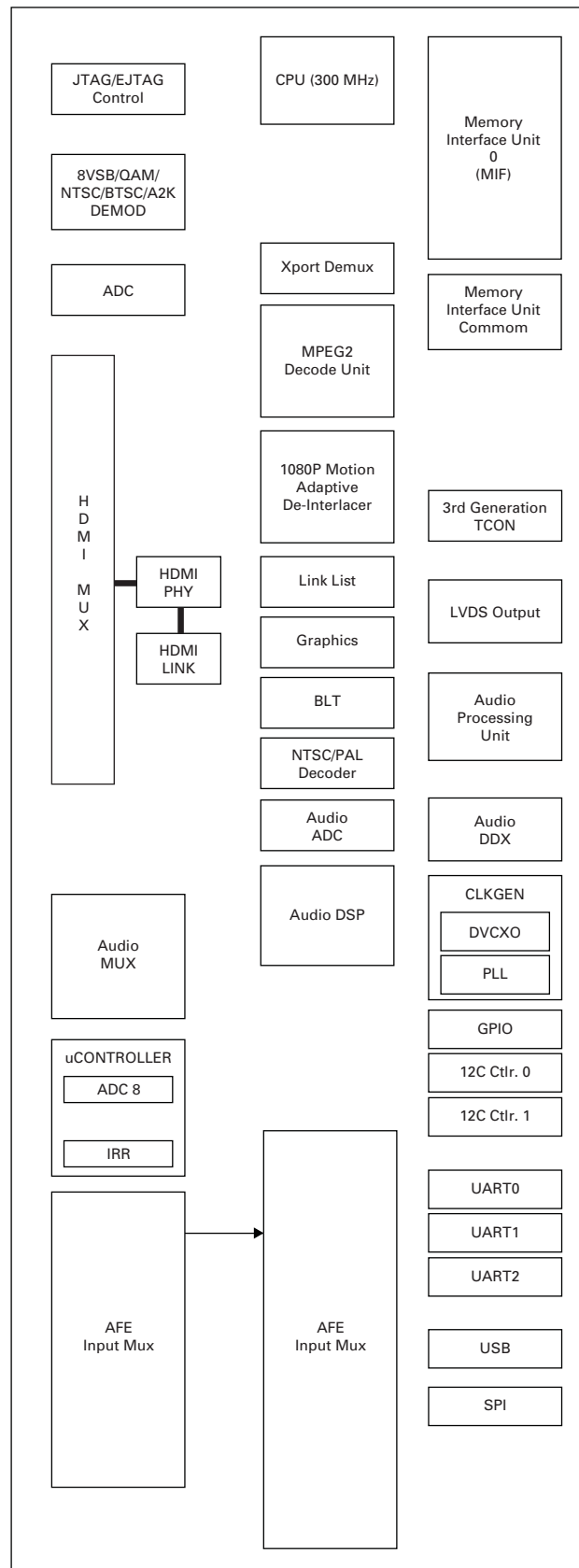


IC5750, Flash Memory

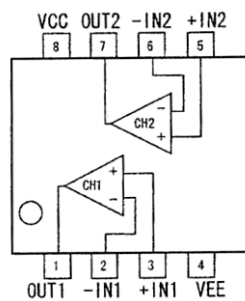


IC BLOCK DIAGRAMS (CONT.)

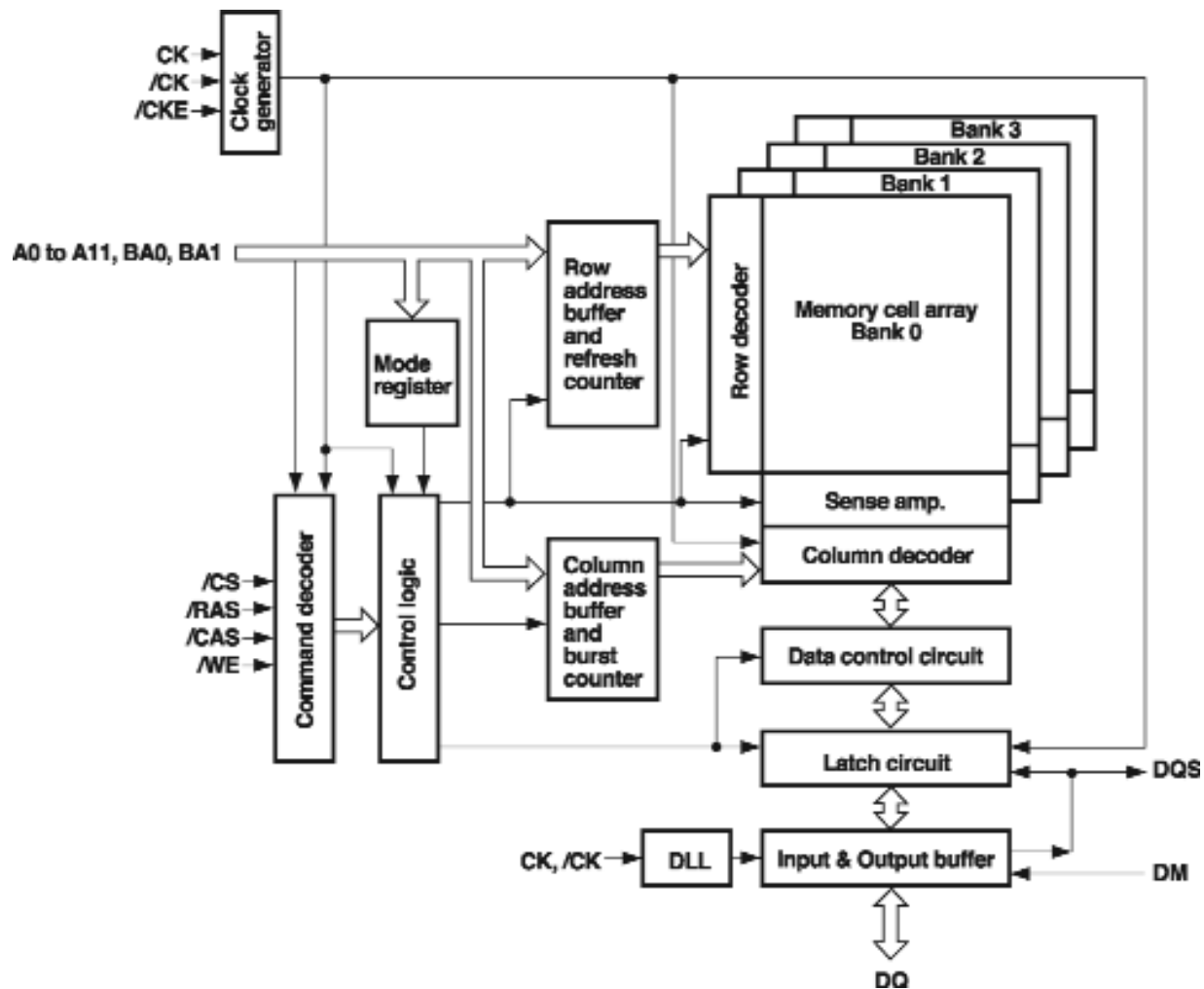
IC5500 Main IC signal processor



IC6250, Voltage comparator

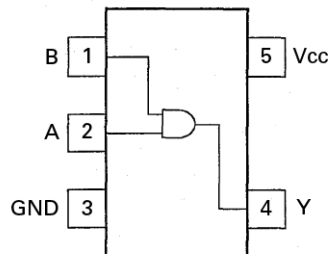


IC5700, DDR: Double Data Rate SDRAM

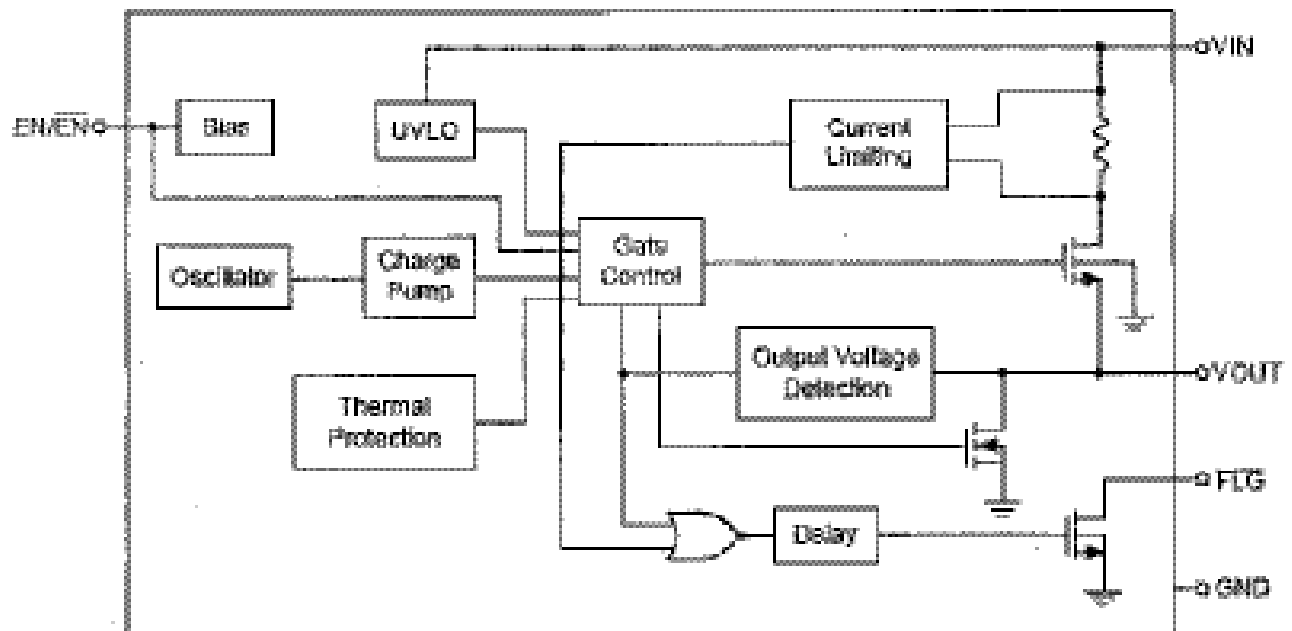


IC BLOCK DIAGRAMS (CONT.)

IC6500, IC6530, IC6560, Logic AND gate

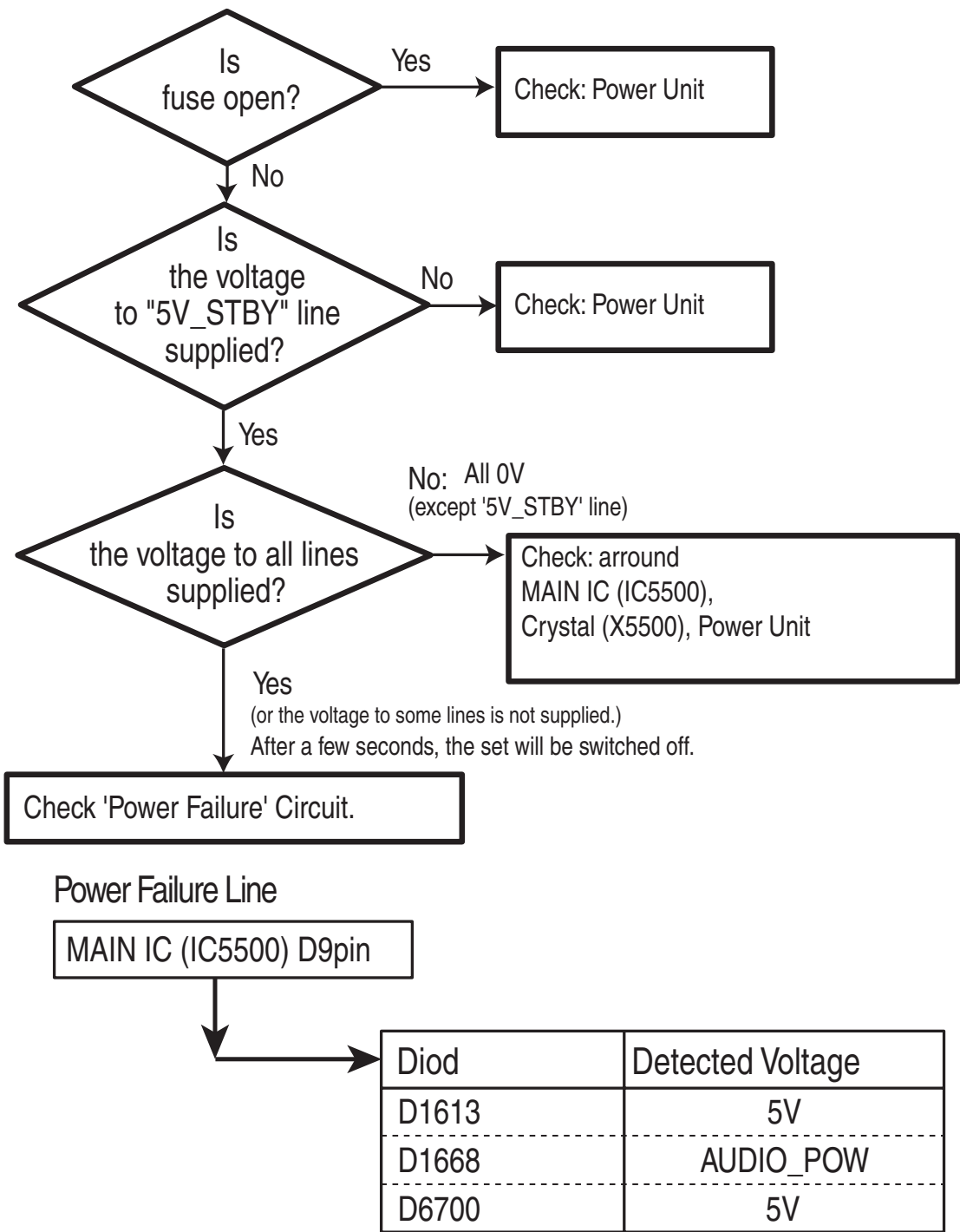


IC 6600, USB Protection



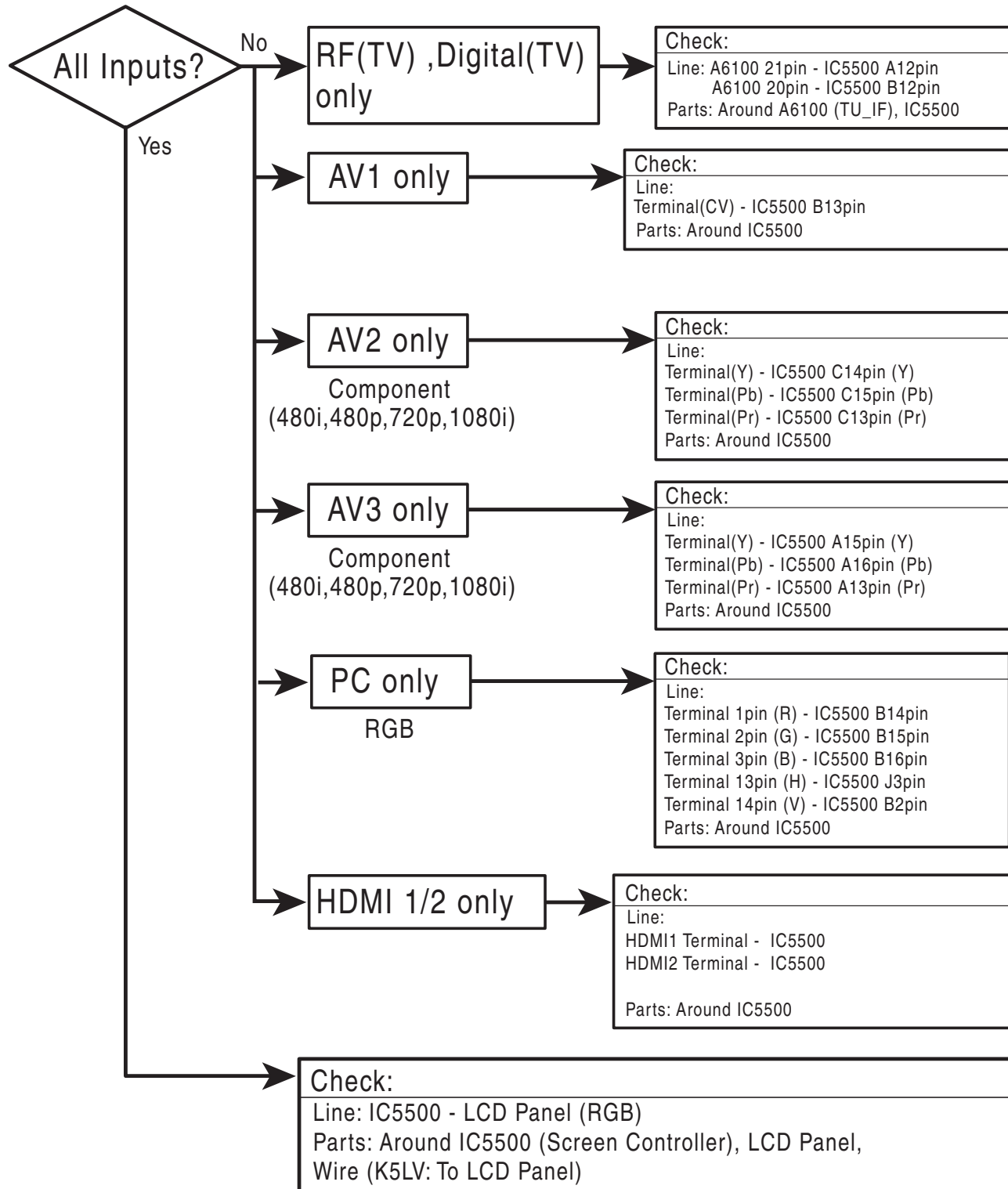
TROUBLESHOOTING FLOW CHARTS

NO POWER



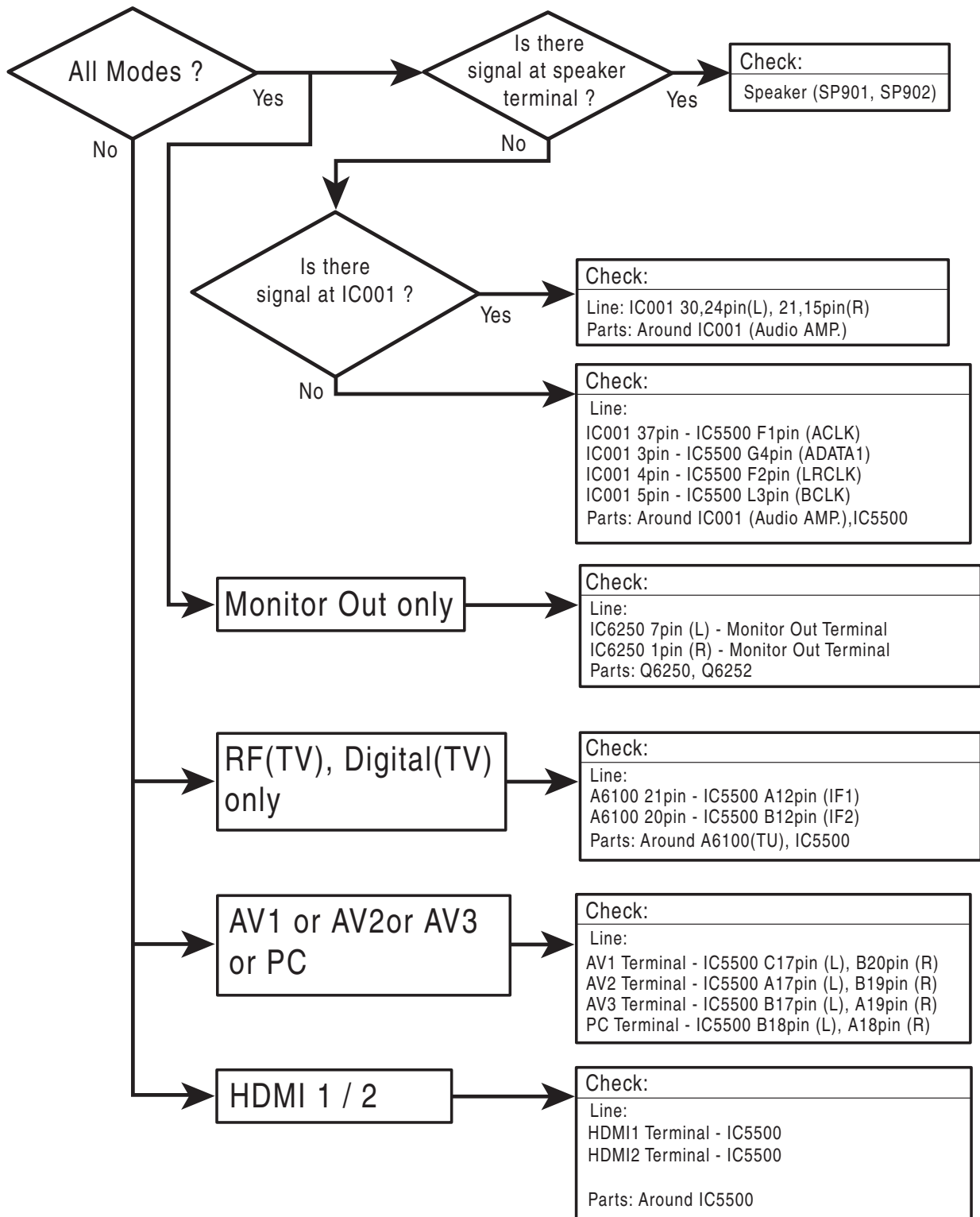
TROUBLESHOOTING FLOW CHARTS (CONT.)

NO VIDEO

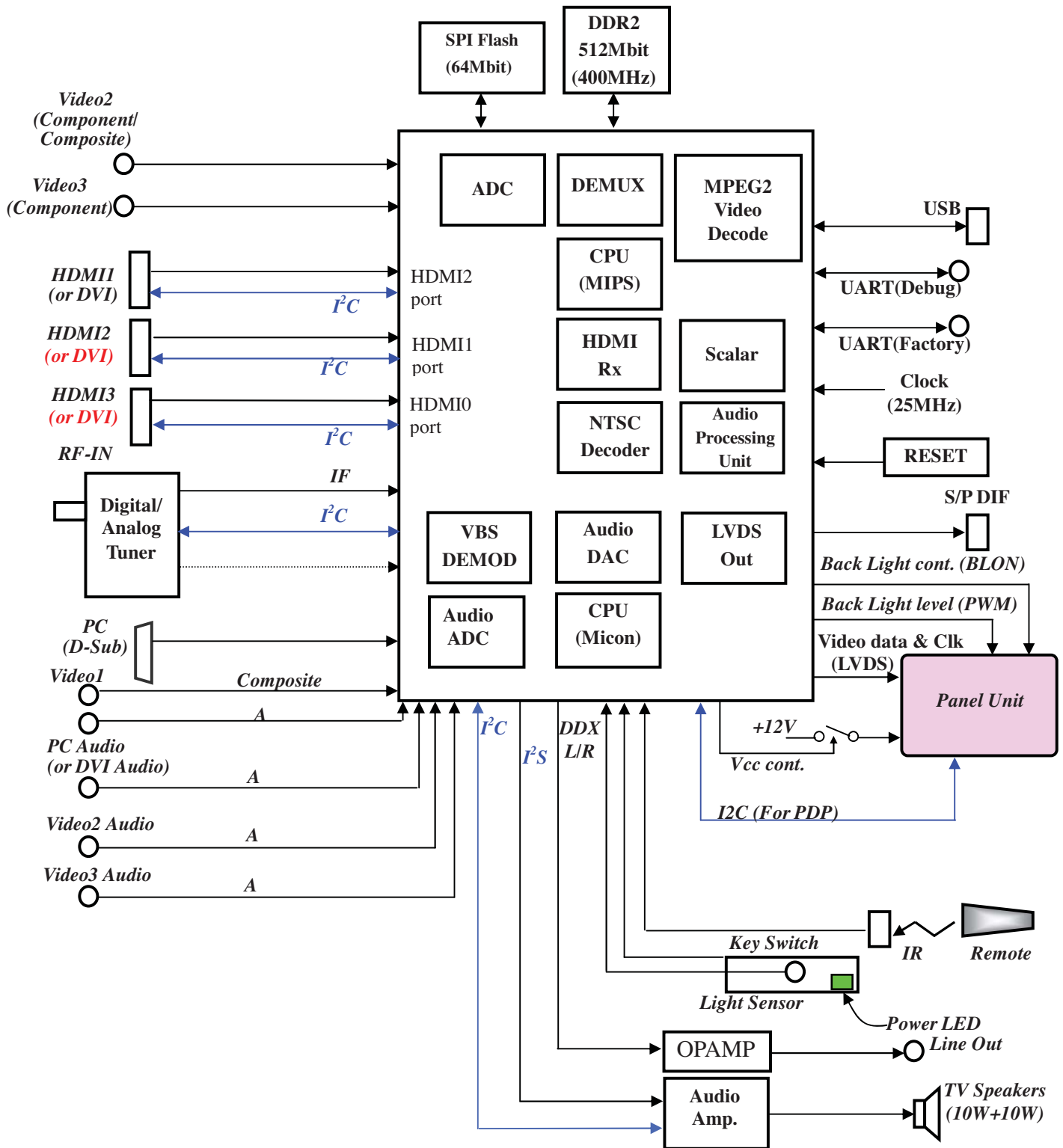


TROUBLESHOOTING FLOW CHARTS (CONT.)

NO AUDIO







MAIN IC(SIGNAL PROCESSOR) & PERIPHERALS



SCHEMATIC NOTES

NOTES ON SCHEMATIC DIAGRAMS

1. All resistance values in ohms K=1,000 M=1,000,000.
2. Resistors specified with resistance value are "1/6DJ."
3. Resistors specified with type of resistor, tolerance and resistance value are "1/4."
4. Unless otherwise noted on schematic, all capacitor values less than 1 are expressed in μF (Micro Farad), and the values more than 1 are in pF.
5. All capacitors are 50 WV rating unless otherwise noted.
6. Unless otherwise noted on schematic, voltage reading taken with VOM from point indicated to chassis ground. Voltage reading taken using color-bar signal VHF channel 5, all controls at normal. Line voltage at 120 volts. Some voltages may vary with signal strength.
7. Waveforms were taken with color-bar signal and controls set for normal picture. Waveforms marked with an * may vary with signal strength.
8. The Symbol  indicates a fusible resistor, which protects the circuit from possible short circuits.
9. Parts enclosed with  are related with X-radiation.
10. Isolation border line.  Cold Side  Hot Side
11. Schematic part location numbers may not always match the schematic symbols.
The schematic symbols and part descriptions are correct and should be used.
The part descriptions will be listed under the location number in the parts list.





ELECTROSTATICALLY SENSITIVE DEVICES

Many solid-state devices (especially Integrated Circuits) are Electrostatically Sensitive, and, therefore, require special handling techniques as described under "Servicing Electrostatically Sensitive Devices," on page two in this service literature.

SERVICE NOTES:

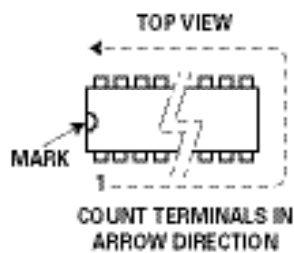
1. When replacing parts on circuit boards, clamp the lead wires to terminals before soldering.
2. When replacing high wattage resistors on circuit board, keep the resistor body 10 mm (3/8) from circuit board.
3. Keep wires away from high voltage and high temperature components.

PRODUCT SAFETY NOTICE

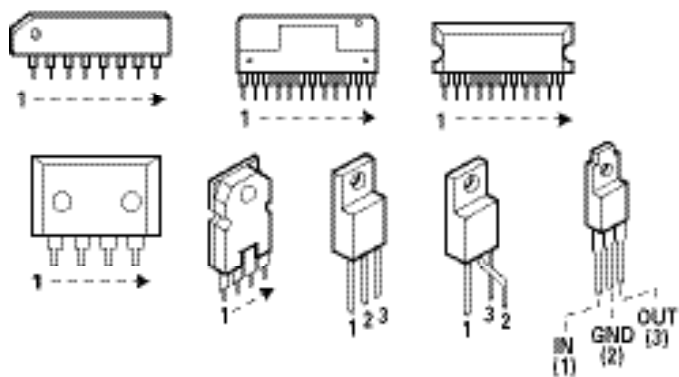
THE COMPONENTS DESIGNATED BY A  ON THIS SCHEMATIC DIAGRAM DESIGNATE COMPONENTS WHOSE VALUES ARE OF SPECIAL SIGNIFICANCE TO PRODUCT SAFETY. SHOULD ANY COMPONENT DESIGNATED BY A  NEED TO BE REPLACED, USE ONLY THE PART DESIGNATED IN THE PARTS LIST. DO NOT DEVIATE FROM THE RESISTANCE, WATTAGE AND VOLTAGE RATINGS SHOWN.

IC, DIODE, AND TRANSISTOR PIN LAYOUTS

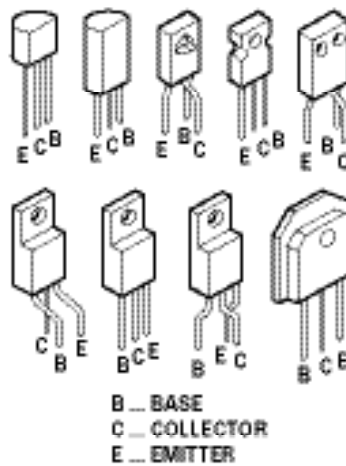
INTEGRATED CIRCUITS



SIDE VIEW

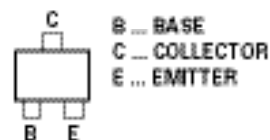


TRANSISTORS

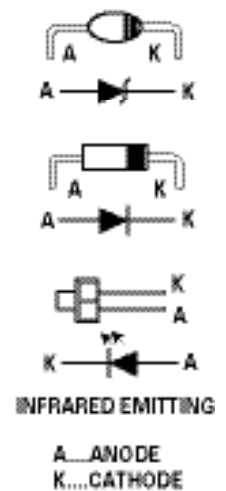


CHIP TRANSISTORS

TOP VIEW

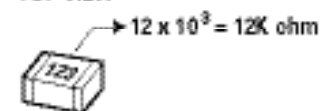


DIODES

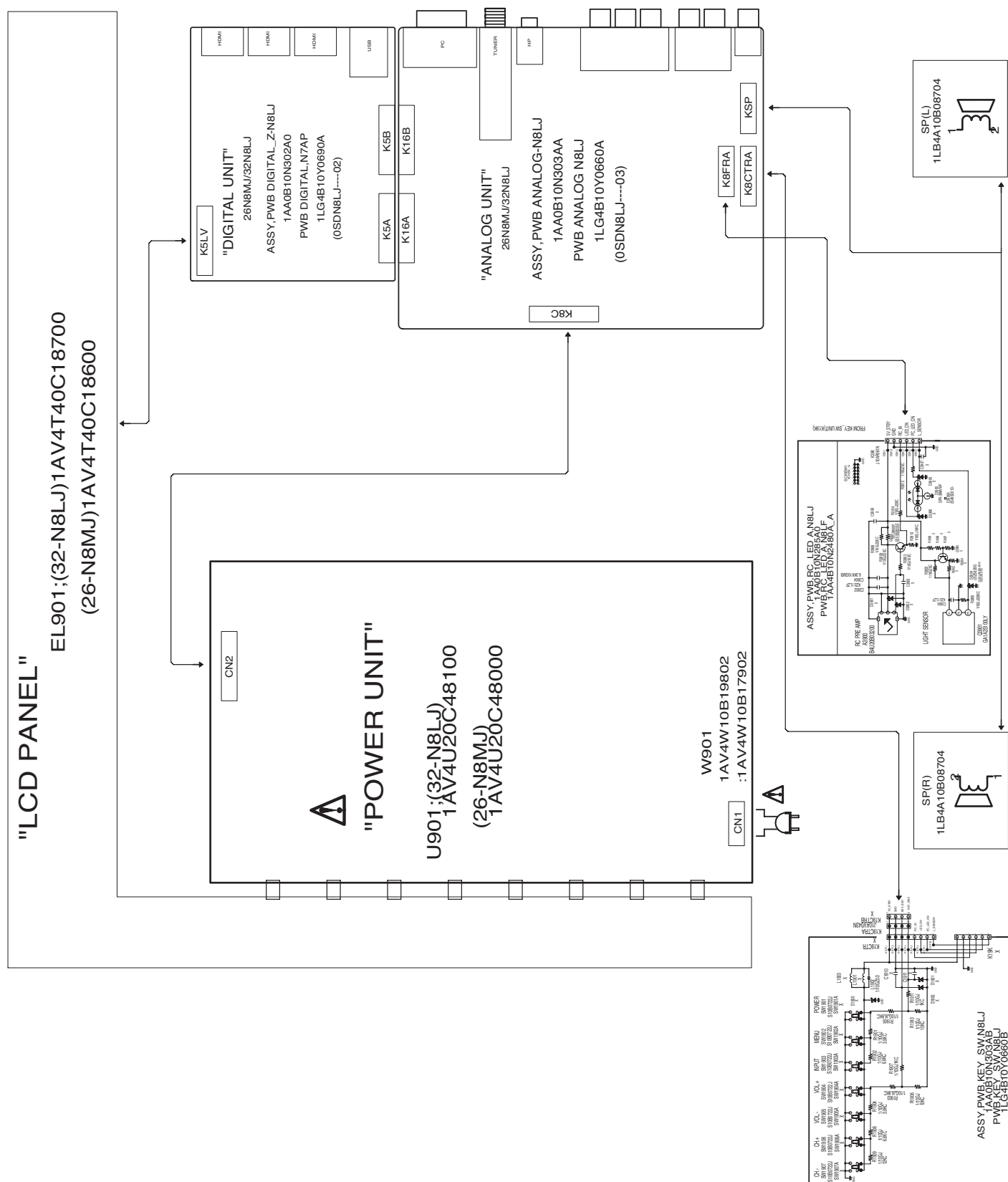


CHIP RESISTORS

TOP VIEW

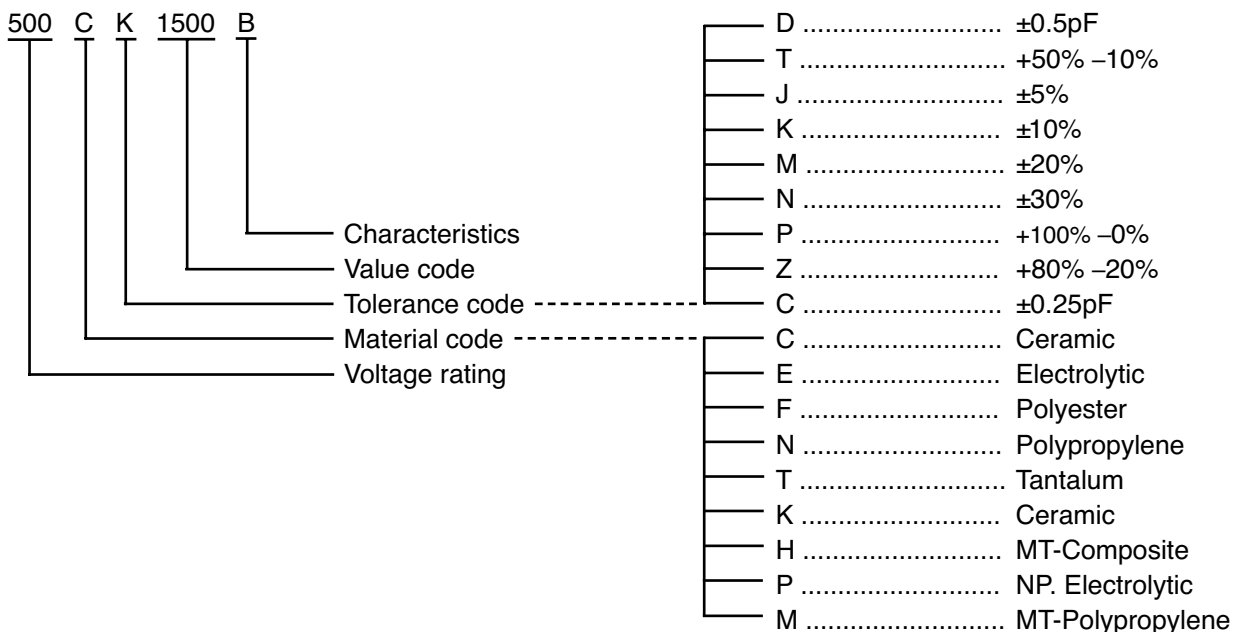


PC BOARD CONNECTIONS AND LOCATIONS

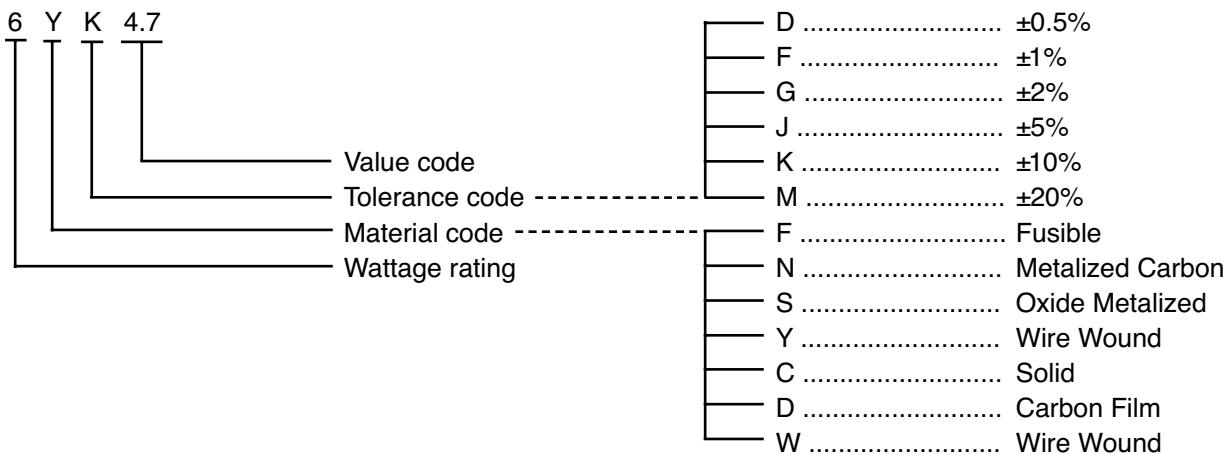


CAPACITOR AND RESISTOR CODE CHART

CAPACITOR (Example)



RESISTOR (Example)



For parts or service contact

Sanyo Manufacturing Corporation
P.O. Box 2000
3333 Sanyo Road
Forrest City, Arkansas 72335-2000



